

Petroleum Supply Monthly

February 2023



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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	375,136	--	--	185,694	30,328	-3,177	474,902	119,433	0	801,591
Hydrocarbon Gas Liquids	170,940	-696	10,444	5,987	--	-24,978	24,227	78,471	108,955	211,085
Natural Gas Liquids	170,940	-696	3,658	5,501	--	-24,841	24,227	78,471	101,546	209,212
Ethane	67,240	--	170	--	--	-3,251	--	14,607	56,054	53,546
Propane	55,505	--	8,135	4,227	--	-11,040	--	45,828	33,079	76,554
Normal Butane	15,174	--	-4,273	1,070	--	-9,600	10,664	12,664	-1,757	41,750
Isobutane	13,934	--	-374	203	--	212	6,952	198	6,401	12,208
Natural Gasoline	19,087	-696	--	1	--	-1,162	6,611	5,174	7,768	25,154
Refinery Olefins	--	--	6,786	486	--	-137	--	--	7,409	1,873
Ethylene	--	--	32	--	--	0	--	--	32	0
Propylene	--	--	7,109	421	--	170	--	--	7,360	1,338
Normal Butylene	--	--	-368	65	--	-318	--	--	15	519
Isobutylene	--	--	13	--	--	11	--	--	2	16
Other Liquids	--	37,412	--	32,435	5,195	5,777	48,953	12,543	7,769	324,799
Hydrogen/Biofuels/Other Hydrocarbons	--	37,414	--	1,577	6,100	1,565	35,561	2,176	5,788	31,723
Hydrogen	--	--	--	--	6,614	--	6,614	--	0	--
Biofuels (including Fuel Ethanol)	--	37,414	--	1,573	-513	1,576	28,933	2,176	5,788	31,713
Fuel Ethanol ⁵	--	30,072	--	--	-513	871	26,974	1,714	0	24,426
Biofuels (excluding Fuel Ethanol)	--	7,341	--	1,573	--	705	1,959	462	5,788	7,287
Biodiesel	--	3,164	--	851	--	349	1,257	462	1,947	3,599
Renewable Diesel Fuel	--	3,572	--	670	--	318	394	NA	3,530	3,405
Other Biofuels ⁶	--	606	--	52	--	38	308	NA	311	282
Other Hydrocarbons	--	--	--	4	-1	-11	14	--	0	10
Unfinished Oils	--	--	--	14,036	--	1,960	3,302	6,785	1,989	86,145
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-1	--	16,822	-905	2,258	10,076	3,582	0	206,897
Reformulated	--	0	--	5,553	12,741	1,952	16,339	2	0	45,511
Conventional	--	-1	--	11,269	-13,645	306	-6,263	3,580	0	161,386
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-6	14	--	-8	33
Finished Petroleum Products	--	181	567,851	23,970	1,418	1,558	--	104,359	487,503	256,191
Finished Motor Gasoline	--	181	291,641	3,047	1,418	727	--	29,830	265,731	17,412
Reformulated	--	--	91,036	--	-11,665	-3	--	--	79,374	20
Conventional	--	181	200,605	3,047	13,083	730	--	29,830	186,356	17,392
Finished Aviation Gasoline	--	--	411	118	--	189	--	--	340	1,306
Kerosene-Type Jet Fuel	--	2	48,407	3,764	--	-2,744	--	5,288	49,629	35,039
Kerosene	--	--	861	100	--	297	--	486	178	2,128
Distillate Fuel Oil ⁵	--	-3	151,040	6,551	--	-1,718	--	44,066	115,240	118,809
15 ppm sulfur and under	--	-3	144,371	6,446	--	-756	--	37,485	114,085	108,653
Greater than 15 ppm to 500 ppm sulfur	--	0	3,276	103	--	-317	--	3,437	259	2,499
Greater than 500 ppm sulfur	--	--	3,393	2	--	-645	--	3,144	896	7,657
Residual Fuel Oil	--	--	8,429	5,693	--	1,658	--	4,384	8,080	30,739
Less than 0.31 percent sulfur	--	--	1,272	--	--	761	--	NA	NA	2,780
0.31 to 1.00 percent sulfur	--	--	3,289	731	--	-303	--	NA	NA	6,171
Greater than 1.00 percent sulfur	--	--	3,868	4,962	--	1,200	--	NA	NA	21,788
Petrochemical Feedstocks	--	--	5,819	818	--	-179	--	--	6,816	2,388
Naphtha for Petro. Feed. Use	--	--	3,386	691	--	-42	--	--	4,119	1,783
Other Oils for Petro. Feed. Use	--	--	2,433	127	--	-137	--	--	2,697	605
Special Naphthas	--	--	669	343	--	-38	--	--	1,050	977
Lubricants	--	--	4,700	1,615	--	1,359	--	1,797	3,159	13,347
Waxes	--	--	102	91	--	9	--	99	85	601
Petroleum Coke	--	--	24,214	274	--	-19	--	17,581	6,926	6,874
Marketable	--	--	18,493	274	--	-19	--	17,581	1,205	6,874
Catalyst	--	--	5,721	--	--	--	--	--	5,721	--
Asphalt and Road Oil	--	--	9,011	1,556	--	2,083	--	784	7,700	25,676
Still Gas	--	--	19,894	--	--	--	--	--	19,894	--
Miscellaneous Products	--	--	2,653	--	--	-66	--	44	2,675	895
Total	546,076	36,897	578,295	248,086	36,941	-20,820	548,082	314,806	604,227	1,593,665

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	4,337,234	--	--	2,291,428	286,937	-213,511	5,813,483	1,315,627	0	801,591
Hydrocarbon Gas Liquids	2,147,239	-8,142	222,930	63,357	--	17,580	225,837	872,443	1,309,525	211,085
Natural Gas Liquids	2,147,239	-8,142	128,302	57,808	--	17,795	225,837	872,443	1,209,133	209,212
Ethane	870,551	--	2,261	--	--	-9,637	--	163,263	719,186	53,546
Propane	677,500	--	103,322	41,671	--	12,958	--	502,802	306,733	76,554
Normal Butane	192,317	--	27,930	13,405	--	7,469	68,202	142,864	15,117	41,750
Isobutane	165,000	--	-5,211	2,679	--	2,534	83,300	1,891	74,743	12,208
Natural Gasoline	241,871	-8,142	--	53	--	4,471	74,335	61,624	93,353	25,154
Refinery Olefins	--	--	94,628	5,549	--	-215	--	--	100,392	1,873
Ethylene	--	--	288	--	--	0	--	--	288	0
Propylene	--	--	96,037	4,612	--	-59	--	--	100,708	1,338
Normal Butylene	--	--	-1,950	937	--	-127	--	--	-886	519
Isobutylene	--	--	253	--	--	-29	--	--	282	16
Other Liquids	--	444,533	--	399,313	85,907	1,382	664,822	168,957	94,591	324,799
Hydrogen/Biofuels/Other Hydrocarbons	--	444,538	--	14,043	71,460	3,077	427,621	39,317	60,026	31,723
Hydrogen	--	--	--	--	80,554	--	80,554	--	0	--
Biofuels (including Fuel Ethanol)	--	444,538	--	13,963	-9,154	3,083	346,921	39,317	60,026	31,713
Fuel Ethanol ⁵	--	365,828	--	1,645	-9,154	2,415	323,739	32,165	0	24,426
Biofuels (excluding Fuel Ethanol)	--	78,710	--	12,318	--	668	23,182	7,152	60,026	7,287
Biodiesel	--	38,571	--	5,950	--	-585	16,081	7,152	21,873	3,599
Renewable Diesel Fuel	--	35,308	--	6,254	--	1,053	4,525	NA	35,985	3,405
Other Biofuels ⁶	--	4,830	--	114	--	200	2,576	NA	2,169	282
Other Hydrocarbons	--	--	--	80	60	-6	146	--	0	10
Unfinished Oils	--	--	--	188,666	--	5,894	43,921	104,428	34,423	86,145
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-5	--	196,604	14,447	-7,597	193,430	25,212	0	206,897
Reformulated	--	-2	--	57,590	75,243	-1,846	134,638	39	0	45,511
Conventional	--	-3	--	139,014	-60,796	-5,751	58,792	25,173	0	161,386
Aviation Gasoline Blend. Comp.	--	--	--	--	--	8	-150	--	142	33
Finished Petroleum Products	--	2,377	6,853,449	281,791	-5,293	-4,442	--	1,138,590	5,998,175	256,191
Finished Motor Gasoline	--	2,272	3,492,598	36,560	-5,293	-331	--	322,935	3,203,533	17,412
Reformulated	--	--	1,078,454	--	-68,977	-2	--	--	1,009,479	20
Conventional	--	2,272	2,414,144	36,560	63,684	-329	--	322,935	2,194,054	17,392
Finished Aviation Gasoline	--	--	4,033	432	--	55	--	--	4,410	1,306
Kerosene-Type Jet Fuel	--	86	589,552	43,763	--	-759	--	65,333	568,827	35,039
Kerosene	--	0	4,128	118	--	-117	--	2,982	1,381	2,128
Distillate Fuel Oil ⁵	--	19	1,827,183	68,617	--	-11,119	--	460,676	1,446,262	118,809
15 ppm sulfur and under	--	19	1,749,078	66,601	--	-11,526	--	391,560	1,435,665	108,653
Greater than 15 ppm to 500 ppm sulfur	--	0	35,013	1,514	--	-286	--	33,280	3,533	2,499
Greater than 500 ppm sulfur	--	0	43,092	502	--	693	--	35,836	7,065	7,657
Residual Fuel Oil	--	--	90,968	78,963	--	5,350	--	39,319	125,262	30,739
Less than 0.31 percent sulfur	--	--	14,892	2,488	--	240	--	NA	NA	2,780
0.31 to 1.00 percent sulfur	--	--	40,661	12,098	--	-141	--	NA	NA	6,171
Greater than 1.00 percent sulfur	--	--	35,415	64,377	--	5,251	--	NA	NA	21,788
Petrochemical Feedstocks	--	--	80,769	5,739	--	-152	--	--	86,660	2,388
Naphtha for Petro. Feed. Use	--	--	45,886	4,562	--	-99	--	--	50,547	1,783
Other Oils for Petro. Feed. Use	--	--	34,883	1,177	--	-53	--	--	36,113	605
Special Naphthas	--	--	11,961	4,734	--	-71	--	--	16,766	977
Lubricants	--	--	57,545	17,882	--	513	--	34,115	40,799	13,347
Waxes	--	--	1,944	2,035	--	52	--	1,654	2,273	601
Petroleum Coke	--	--	294,481	3,468	--	54	--	204,970	92,925	6,874
Marketable	--	--	222,182	3,468	--	54	--	204,970	20,626	6,874
Catalyst	--	--	72,299	--	--	--	--	--	72,299	--
Asphalt and Road Oil	--	--	124,319	19,469	--	1,809	--	5,959	136,020	25,676
Still Gas	--	--	241,359	--	--	--	--	--	241,359	--
Miscellaneous Products	--	--	32,609	11	--	274	--	649	31,697	895
Total	6,484,473	438,768	7,076,379	3,035,889	367,551	-198,990	6,704,142	3,495,618	7,402,290	1,593,665

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	12,101	--	--	5,990	978	-102	15,319	3,853	0
Hydrocarbon Gas Liquids	5,514	-22	337	193	--	-806	782	2,531	3,515
Natural Gas Liquids	5,514	-22	118	177	--	-801	782	2,531	3,276
Ethane	2,169	--	5	--	--	-105	--	471	1,808
Propane	1,790	--	262	136	--	-356	--	1,478	1,067
Normal Butane	489	--	-138	35	--	-310	344	409	-57
Isobutane	449	--	-12	7	--	7	224	6	206
Natural Gasoline	616	-22	--	0	--	-37	213	167	251
Refinery Olefins	--	--	219	16	--	-4	--	--	239
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	229	14	--	5	--	--	237
Normal Butylene	--	--	-12	2	--	-10	--	--	0
Isobutylene	--	--	0	--	--	0	--	--	0
Other Liquids	--	1,207	--	1,046	168	186	1,579	405	251
Hydrogen/Biofuels/Other Hydrocarbons	--	1,207	--	51	197	50	1,147	70	187
Hydrogen	--	--	--	--	213	--	213	--	0
Biofuels (including Fuel Ethanol)	--	1,207	--	51	-17	51	933	70	187
Fuel Ethanol ⁵	--	970	--	--	-17	28	870	55	0
Biofuels (excluding Fuel Ethanol)	--	237	--	51	--	23	63	15	187
Biodiesel	--	102	--	27	--	11	41	15	63
Renewable Diesel Fuel	--	115	--	22	--	10	13	NA	114
Other Biofuels ⁶	--	20	--	2	--	1	10	NA	10
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	453	--	63	107	219	64
Motor Gasoline Blend.Comp. (MGBG) ⁵	--	0	--	543	-29	73	325	116	0
Reformulated	--	0	--	179	411	63	527	0	0
Conventional	--	0	--	364	-440	10	-202	115	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	6	18,318	773	46	50	--	3,366	15,726
Finished Motor Gasoline	--	6	9,408	98	46	23	--	962	8,572
Reformulated	--	--	2,937	--	-376	0	--	--	2,560
Conventional	--	6	6,471	98	422	24	--	962	6,011
Finished Aviation Gasoline	--	--	13	4	--	6	--	--	11
Kerosene-Type Jet Fuel	--	0	1,562	121	--	-89	--	171	1,601
Kerosene	--	--	28	3	--	10	--	16	6
Distillate Fuel Oil ⁵	--	0	4,872	211	--	-55	--	1,421	3,717
15 ppm sulfur and under	--	0	4,657	208	--	-24	--	1,209	3,680
Greater than 15 ppm to 500 ppm sulfur	--	0	106	3	--	-10	--	111	8
Greater than 500 ppm sulfur	--	--	109	0	--	-21	--	101	29
Residual Fuel Oil	--	--	272	184	--	53	--	141	261
Less than 0.31 percent sulfur	--	--	41	--	--	25	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	106	24	--	-10	--	NA	NA
Greater than 1.00 percent sulfur	--	--	125	160	--	39	--	NA	NA
Petrochemical Feedstocks	--	--	188	26	--	-6	--	--	220
Naphtha for Petro. Feed. Use	--	--	109	22	--	-1	--	--	133
Other Oils for Petro. Feed. Use	--	--	78	4	--	-4	--	--	87
Special Naphthas	--	--	22	11	--	-1	--	--	34
Lubricants	--	--	152	52	--	44	--	58	102
Waxes	--	--	3	3	--	0	--	3	3
Petroleum Coke	--	--	781	9	--	-1	--	567	223
Marketable	--	--	597	9	--	-1	--	567	39
Catalyst	--	--	185	--	--	--	--	--	185
Asphalt and Road Oil	--	--	291	50	--	67	--	25	248
Still Gas	--	--	642	--	--	--	--	--	642
Miscellaneous Products	--	--	86	--	--	-2	--	1	86
Total	17,615	1,190	18,655	8,003	1,192	-672	17,680	10,155	19,491

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,883	--	--	6,278	786	-585	15,927	3,604	0
Hydrocarbon Gas Liquids	5,883	-22	611	174	--	48	619	2,390	3,588
Natural Gas Liquids	5,883	-22	352	158	--	49	619	2,390	3,313
Ethane	2,385	--	6	--	--	-26	--	447	1,970
Propane	1,856	--	283	114	--	36	--	1,378	840
Normal Butane	527	--	77	37	--	20	187	391	41
Isobutane	452	--	-14	7	--	7	228	5	205
Natural Gasoline	663	-22	--	0	--	12	204	169	256
Refinery Olefins	--	--	259	15	--	-1	--	--	275
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	263	13	--	0	--	--	276
Normal Butylene	--	--	-5	3	--	0	--	--	-2
Isobutylene	--	--	1	--	--	0	--	--	1
Other Liquids	--	1,218	--	1,094	235	4	1,821	463	259
Hydrogen/Biofuels/Other Hydrocarbons	--	1,218	--	38	196	8	1,172	108	164
Hydrogen	--	--	--	--	221	--	221	--	0
Biofuels (including Fuel Ethanol)	--	1,218	--	38	-25	8	950	108	164
Fuel Ethanol ⁵	--	1,002	--	5	-25	7	887	88	0
Biofuels (excluding Fuel Ethanol)	--	216	--	34	--	2	64	20	164
Biodiesel	--	106	--	16	--	-2	44	20	60
Renewable Diesel Fuel	--	97	--	17	--	3	12	NA	99
Other Biofuels ⁶	--	13	--	0	--	1	7	NA	6
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	517	--	16	120	286	94
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	539	40	-21	530	69	0
Reformulated	--	0	--	158	206	-5	369	0	0
Conventional	--	0	--	381	-167	-16	161	69	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	7	18,777	772	-15	-12	--	3,119	16,433
Finished Motor Gasoline	--	6	9,569	100	-15	-1	--	885	8,777
Reformulated	--	--	2,955	--	-189	0	--	--	2,766
Conventional	--	6	6,614	100	174	-1	--	885	6,011
Finished Aviation Gasoline	--	--	11	1	--	0	--	--	12
Kerosene-Type Jet Fuel	--	0	1,615	120	--	-2	--	179	1,558
Kerosene	--	0	11	0	--	0	--	8	4
Distillate Fuel Oil ⁵	--	0	5,006	188	--	-30	--	1,262	3,962
15 ppm sulfur and under	--	0	4,792	182	--	-32	--	1,073	3,933
Greater than 15 ppm to 500 ppm sulfur	--	0	96	4	--	-1	--	91	10
Greater than 500 ppm sulfur	--	0	118	1	--	2	--	98	19
Residual Fuel Oil	--	--	249	216	--	15	--	108	343
Less than 0.31 percent sulfur	--	--	41	7	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	111	33	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	97	176	--	14	--	NA	NA
Petrochemical Feedstocks	--	--	221	16	--	0	--	--	237
Naphtha for Petro. Feed. Use	--	--	126	12	--	0	--	--	138
Other Oils for Petro. Feed. Use	--	--	96	3	--	0	--	--	99
Special Naphthas	--	--	33	13	--	0	--	--	46
Lubricants	--	--	158	49	--	1	--	93	112
Waxes	--	--	5	6	--	0	--	5	6
Petroleum Coke	--	--	807	10	--	0	--	562	255
Marketable	--	--	609	10	--	0	--	562	57
Catalyst	--	--	198	--	--	--	--	--	198
Asphalt and Road Oil	--	--	341	53	--	5	--	16	373
Still Gas	--	--	661	--	--	--	--	--	661
Miscellaneous Products	--	--	89	0	--	1	--	2	87
Total	17,766	1,202	19,387	8,318	1,007	-545	18,368	9,577	20,280

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	1,902	--	--	18,987	3,452	806	272	23,493	1,383	0	7,612
Hydrocarbon Gas Liquids	19,722	-9	371	1,344	2,817	--	-2,366	1,880	6,163	18,568	9,708
Natural Gas Liquids	19,722	-9	49	1,062	2,548	--	-2,241	1,880	6,163	17,570	9,555
Ethane	8,386	--	--	--	-4,871	--	-178	--	2,257	1,436	860
Propane	6,677	--	417	1,020	6,746	--	-1,759	--	2,880	13,739	6,839
Normal Butane	1,981	--	-384	38	1,298	--	-260	1,385	985	823	1,514
Isobutane	924	--	16	4	-387	--	23	121	1	412	140
Natural Gasoline	1,754	-9	--	--	-238	--	-67	374	40	1,161	202
Refinery Olefins	--	--	322	282	269	--	-125	--	--	998	153
Ethylene	--	--	24	--	--	--	--	--	--	24	--
Propylene	--	--	285	282	269	--	-27	--	--	863	137
Normal Butylene	--	--	--	--	--	--	-109	--	--	109	0
Isobutylene	--	--	13	--	--	--	11	--	--	2	16
Other Liquids	--	512	--	16,728	59,588	13,934	4,085	86,089	330	259	65,092
Hydrogen/Biofuels/Other Hydrocarbons	--	512	--	390	9,242	751	-5	10,545	309	46	8,131
Hydrogen	--	--	--	--	--	88	--	88	--	0	--
Biofuels (including Fuel Ethanol)	--	512	--	390	9,242	663	-5	10,457	309	46	8,131
Fuel Ethanol ⁶	--	343	--	--	8,981	663	-70	9,977	80	0	7,034
Biofuels (excluding Fuel Ethanol) ⁷	--	169	--	390	262	--	66	480	229	46	1,098
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	961	-48	--	-518	1,201	17	213	3,457
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	15,377	50,394	13,184	4,608	74,343	4	0	53,504
Reformulated	--	--	--	5,553	6,696	5,928	2,333	15,844	0	0	16,836
Conventional	--	--	--	9,824	43,698	7,256	2,275	58,499	4	0	36,668
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1	112,092	13,462	46,550	-13,846	5,823	--	1,718	150,717	60,429
Finished Motor Gasoline	--	--	--	97,907	2,556	-13,846	688	--	69	88,292	2,894
Reformulated	--	--	--	36,569	--	-6,017	0	--	--	30,552	5
Conventional	--	--	--	61,338	2,432	-7,829	688	--	69	57,740	2,889
Finished Aviation Gasoline	--	--	--	113	50	--	41	--	--	122	206
Kerosene-Type Jet Fuel	--	--	2,635	1,224	15,090	--	-47	--	386	18,610	8,957
Kerosene	--	--	119	100	37	--	680	--	1	-425	1,616
Distillate Fuel Oil ⁶	--	1	7,292	5,917	27,076	--	3,666	--	163	36,457	34,402
15 ppm sulfur and under	--	1	7,307	5,817	26,179	--	3,632	--	11	35,660	32,015
Greater than 15 ppm to 500 ppm sulfur	--	--	-37	100	1	--	-121	--	150	35	591
Greater than 500 ppm sulfur	--	--	22	--	896	--	155	--	1	762	1,796
Residual Fuel Oil	--	--	1,182	1,881	--	--	17	--	71	2,975	5,611
Less than 0.31 percent sulfur	--	--	-14	--	--	--	19	--	NA	NA	293
0.31 to 1.00 percent sulfur	--	--	959	689	--	--	-335	--	NA	NA	842
Greater than 1.00 percent sulfur	--	--	237	1,192	--	--	333	--	NA	NA	4,476
Petrochemical Feedstocks	--	--	--	585	-31	--	--	--	--	554	--
Naphtha for Petro. Feed. Use	--	--	--	584	--	--	--	--	--	584	--
Other Oils for Petro. Feed. Use	--	--	--	1	-31	--	--	--	--	-30	--
Special Naphthas	--	--	1	1	--	--	6	--	--	-4	61
Lubricants	--	--	379	132	512	--	108	--	178	737	1,540
Waxes	--	--	-17	34	--	--	16	--	50	-49	221
Petroleum Coke	--	--	656	--	515	--	--	--	656	514	--
Marketable	--	--	224	--	515	--	--	--	656	82	--
Catalyst	--	--	432	--	--	--	--	--	--	432	--
Asphalt and Road Oil	--	--	1,004	919	869	--	640	--	129	2,023	4,855
Still Gas	--	--	840	--	--	--	--	--	--	840	--
Miscellaneous Products	--	--	94	--	--	--	8	--	15	71	66
Total	21,624	504	112,463	50,521	112,407	894	7,814	111,462	9,594	169,544	142,841

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	22,649	--	--	217,948	33,891	16,354	-42	272,360	18,524	0	7,612
Hydrocarbon Gas Liquids	231,111	-106	7,727	14,588	26,685	--	-506	13,988	91,282	175,241	9,708
Natural Gas Liquids	231,111	-106	3,273	11,470	22,993	--	-400	13,988	91,282	163,871	9,555
Ethane	94,193	--	--	--	-62,158	--	176	--	26,199	5,660	860
Propane	79,686	--	5,006	10,772	74,405	--	-682	--	49,016	121,535	6,839
Normal Butane	24,167	--	-1,158	496	18,049	--	161	9,961	15,293	16,139	1,514
Isobutane	10,911	--	-575	202	-4,214	--	4	1,506	8	4,806	140
Natural Gasoline	22,154	-106	--	--	-3,089	--	-59	2,521	766	15,730	202
Refinery Olefins	--	--	4,454	3,118	3,692	--	-106	--	--	11,370	153
Ethylene	--	--	186	--	--	--	--	--	--	186	--
Propylene	--	--	3,764	3,118	3,692	--	-9	--	--	10,583	137
Normal Butylene	--	--	0	--	--	--	-84	--	--	84	0
Isobutylene	--	--	504	--	--	--	-13	--	--	517	16
Other Liquids	--	5,837	--	179,248	722,531	119,109	-4,455	1,024,564	3,084	3,531	65,092
Hydrogen/Biofuels/Other Hydrocarbons	--	5,837	--	3,100	106,325	12,315	1,063	122,995	2,101	1,417	8,131
Hydrogen	--	--	--	--	--	1,120	--	1,120	--	0	--
Biofuels (including Fuel Ethanol)	--	5,837	--	3,100	106,325	11,195	1,063	121,875	2,101	1,417	8,131
Fuel Ethanol ⁶	--	4,174	--	444	104,333	11,195	1,007	117,572	1,566	0	7,034
Biofuels (excluding Fuel Ethanol) ⁷	--	1,663	--	2,656	1,992	--	57	4,303	534	1,417	1,098
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	13,891	-51	--	-115	11,250	591	2,114	3,457
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	162,257	616,257	106,794	-5,403	890,319	392	0	53,504
Reformulated	--	--	--	55,558	96,630	22,990	-2,547	177,716	9	0	16,836
Conventional	--	--	--	106,699	519,627	83,804	-2,856	712,603	383	0	36,668
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	6	1,316,134	134,919	515,091	-117,989	-10,048	--	24,164	1,834,046	60,429
Finished Motor Gasoline	--	--	1,153,044	27,657	27,720	-117,989	-22	--	844	1,089,610	2,894
Reformulated	--	--	425,547	--	--	-29,136	-1	--	--	396,412	5
Conventional	--	--	727,497	27,657	27,720	-88,853	-21	--	844	693,198	2,889
Finished Aviation Gasoline	--	--	-8	256	884	--	-41	--	--	1,173	206
Kerosene-Type Jet Fuel	--	--	32,445	11,499	169,098	--	-200	--	709	212,533	8,957
Kerosene	--	--	788	100	283	--	-142	--	119	1,194	1,616
Distillate Fuel Oil ⁶	--	--	79,260	55,188	293,427	--	-10,180	--	8,068	429,993	34,402
15 ppm sulfur and under	--	--	80,734	54,952	283,516	--	-9,127	--	6,077	422,258	32,015
Greater than 15 ppm to 500 ppm sulfur	--	--	95	174	72	--	-444	--	1,540	-755	591
Greater than 500 ppm sulfur	--	--	-1,569	62	9,839	--	-609	--	452	8,489	1,796
Residual Fuel Oil	--	--	15,104	24,504	265	--	1,070	--	2,357	36,446	5,611
Less than 0.31 percent sulfur	--	--	-86	1,608	93	--	-14	--	NA	NA	293
0.31 to 1.00 percent sulfur	--	--	11,612	8,107	--	--	-451	--	NA	NA	842
Greater than 1.00 percent sulfur	--	--	3,578	14,789	172	--	1,535	--	NA	NA	4,476
Petrochemical Feedstocks	--	--	--	1,124	-31	--	--	--	--	1,093	--
Naphtha for Petro. Feed. Use	--	--	--	1,112	--	--	--	--	--	1,112	--
Other Oils for Petro. Feed. Use	--	--	--	12	-31	--	--	--	--	-19	--
Special Naphthas	--	--	118	121	25	--	33	--	--	231	61
Lubricants	--	--	4,512	1,554	5,945	--	45	--	2,834	9,132	1,540
Waxes	--	--	-124	1,099	--	--	-14	--	917	72	221
Petroleum Coke	--	--	8,182	12	4,108	--	--	--	7,034	5,267	--
Marketable	--	--	3,030	12	4,108	--	--	--	7,034	115	--
Catalyst	--	--	5,152	--	--	--	--	--	--	5,152	--
Asphalt and Road Oil	--	--	11,719	11,805	13,367	--	-596	--	1,065	36,422	4,855
Still Gas	--	--	10,006	--	--	--	--	--	--	10,006	--
Miscellaneous Products	--	--	1,088	--	--	--	-1	--	216	873	66
Total	253,760	5,737	1,323,861	546,703	1,298,198	17,474	-15,051	1,310,912	137,054	2,012,818	142,841

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	61	--	--	612	111	26	9	758	45	0
Hydrocarbon Gas Liquids	636	0	12	43	91	--	-76	61	199	599
Natural Gas Liquids	636	0	2	34	82	--	-72	61	199	567
Ethane	271	--	--	--	-157	--	-6	--	73	46
Propane	215	--	13	33	218	--	-57	--	93	443
Normal Butane	64	--	-12	1	42	--	-8	45	32	27
Isobutane	30	--	1	0	-12	--	1	4	0	13
Natural Gasoline	57	0	--	--	-8	--	-2	12	1	37
Refinery Olefins	--	--	10	9	9	--	-4	--	--	32
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	9	9	9	--	-1	--	--	28
Normal Butylene	--	--	--	--	--	--	-4	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	17	--	540	1,922	449	132	2,777	11	8
Hydrogen/Biofuels/Other Hydrocarbons	--	17	--	13	298	24	0	340	10	1
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	17	--	13	298	21	0	337	10	1
Fuel Ethanol ⁶	--	11	--	--	290	21	-2	322	3	0
Biofuels (excluding Fuel Ethanol) ⁷	--	5	--	13	8	--	2	15	7	1
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	31	-2	--	-17	39	1	7
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	496	1,626	425	149	2,398	0	0
Reformulated	--	--	--	179	216	191	75	511	0	0
Conventional	--	--	--	317	1,410	234	73	1,887	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,616	434	1,502	-447	188	--	55	4,862
Finished Motor Gasoline	--	--	3,158	82	78	-447	22	--	2	2,848
Reformulated	--	--	1,180	--	--	-194	0	--	--	986
Conventional	--	--	1,979	82	78	-253	22	--	2	1,863
Finished Aviation Gasoline	--	--	--	4	2	--	1	--	--	4
Kerosene-Type Jet Fuel	--	--	85	39	487	--	-2	--	12	600
Kerosene	--	--	4	3	1	--	22	--	0	-14
Distillate Fuel Oil ⁶	--	0	235	191	873	--	118	--	5	1,176
15 ppm sulfur and under	--	0	236	188	844	--	117	--	0	1,150
Greater than 15 ppm to 500 ppm sulfur	--	--	-1	3	0	--	-4	--	5	1
Greater than 500 ppm sulfur	--	--	1	--	29	--	5	--	0	25
Residual Fuel Oil	--	--	38	61	--	--	1	--	2	96
Less than 0.31 percent sulfur	--	--	0	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	31	22	--	--	-11	--	NA	NA
Greater than 1.00 percent sulfur	--	--	8	38	--	--	11	--	NA	NA
Petrochemical Feedstocks	--	--	--	19	-1	--	--	--	--	18
Naphtha for Petro. Feed. Use	--	--	--	19	--	--	--	--	--	19
Other Oils for Petro. Feed. Use	--	--	--	0	-1	--	--	--	--	-1
Special Naphthas	--	--	0	0	--	--	0	--	--	0
Lubricants	--	--	12	4	17	--	3	--	6	24
Waxes	--	--	-1	1	--	--	1	--	2	-2
Petroleum Coke	--	--	21	--	17	--	--	--	21	17
Marketable	--	--	7	--	17	--	--	--	21	3
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	32	30	28	--	21	--	4	65
Still Gas	--	--	27	--	--	--	--	--	--	27
Miscellaneous Products	--	--	3	--	--	--	0	--	0	2
Total	698	16	3,628	1,630	3,626	29	252	3,596	309	5,469

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	62	--	--	597	93	45	0	746	51	0
Hydrocarbon Gas Liquids	633	0	21	40	73	--	-1	38	250	480
Natural Gas Liquids	633	0	9	31	63	--	-1	38	250	449
Ethane	258	--	--	--	-170	--	0	--	72	16
Propane	218	--	14	30	204	--	-2	--	134	333
Normal Butane	66	--	-3	1	49	--	0	27	42	44
Isobutane	30	--	-2	1	-12	--	0	4	0	13
Natural Gasoline	61	0	--	--	-8	--	0	7	2	43
Refinery Olefins	--	--	12	9	10	--	0	--	--	31
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	10	9	10	--	0	--	--	29
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	16	--	491	1,980	326	-12	2,807	8	10
Hydrogen/Biofuels/Other Hydrocarbons	--	16	--	8	291	34	3	337	6	4
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	16	--	8	291	31	3	334	6	4
Fuel Ethanol ⁶	--	11	--	1	286	31	3	322	4	0
Biofuels (excluding Fuel Ethanol) ⁷	--	5	--	7	5	--	0	12	1	4
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	38	0	--	0	31	2	6
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	445	1,688	293	-15	2,439	1	0
Reformulated	--	--	--	152	265	63	-7	487	0	0
Conventional	--	--	--	292	1,424	230	-8	1,952	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,606	370	1,411	-323	-28	--	66	5,025
Finished Motor Gasoline	--	--	3,159	76	76	-323	0	--	2	2,985
Reformulated	--	--	1,166	--	--	-80	0	--	--	1,086
Conventional	--	--	1,993	76	76	-243	0	--	2	1,899
Finished Aviation Gasoline	--	--	0	1	2	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	89	32	463	--	-1	--	2	582
Kerosene	--	--	2	0	1	--	0	--	0	3
Distillate Fuel Oil ⁶	--	0	217	151	804	--	-28	--	22	1,178
15 ppm sulfur and under	--	0	221	151	777	--	-25	--	17	1,157
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	0	--	-1	--	4	-2
Greater than 500 ppm sulfur	--	--	-4	0	27	--	-2	--	1	23
Residual Fuel Oil	--	--	41	67	1	--	3	--	6	100
Less than 0.31 percent sulfur	--	--	0	4	0	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	22	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	10	41	0	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	--	3	0	--	--	--	--	3
Naphtha for Petro. Feed. Use	--	--	--	3	--	--	--	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	0	0	0	--	0	--	--	1
Lubricants	--	--	12	4	16	--	0	--	8	25
Waxes	--	--	0	3	--	--	0	--	3	0
Petroleum Coke	--	--	22	0	11	--	--	--	19	14
Marketable	--	--	8	0	11	--	--	--	19	0
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	32	32	37	--	-2	--	3	100
Still Gas	--	--	27	--	--	--	--	--	--	27
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	695	16	3,627	1,498	3,557	48	-41	3,592	375	5,515

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	48,320	--	--	82,208	-16,007	1,788	-179	114,315	2,173	0	106,640
Hydrocarbon Gas Liquids	28,884	-658	669	2,106	-8,795	--	-6,791	4,246	7,407	17,344	52,346
Natural Gas Liquids	28,884	-658	-360	1,902	-7,963	--	-6,770	4,246	7,407	16,922	51,963
Ethane	9,013	--	--	--	-4,428	--	-795	--	2,161	3,219	6,195
Propane	10,911	--	2,198	1,235	-8,081	--	-3,028	--	92	9,199	23,026
Normal Butane	3,477	--	-2,259	467	-2,992	--	-3,186	1,581	152	146	10,086
Isobutane	2,004	--	-299	199	529	--	-245	1,996	3	679	2,029
Natural Gasoline	3,479	-658	--	1	7,009	--	484	669	4,998	3,679	10,627
Refinery Olefins	--	--	1,029	204	-832	--	-21	--	--	422	383
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,032	139	-832	--	-14	--	--	353	372
Normal Butylene	--	--	-3	65	--	--	-7	--	--	69	11
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	31,246	--	754	-13,664	-5,069	1,303	9,132	3,119	-287	68,139
Hydrogen/Biofuels/Other Hydrocarbons	--	31,247	--	98	-17,937	-1,431	822	8,796	978	1,381	11,243
Hydrogen	--	--	--	--	--	1,216	--	1,216	--	0	--
Biofuels (including Fuel Ethanol)	--	31,247	--	98	-17,937	-2,650	833	7,566	978	1,381	11,233
Fuel Ethanol	--	28,413	--	--	-16,915	-2,650	644	7,264	940	0	9,996
Biofuels (excluding Fuel Ethanol) ⁶	--	2,834	--	98	-1,022	--	188	302	39	1,381	1,237
Other Hydrocarbons	--	--	--	--	--	3	-11	14	--	0	10
Unfinished Oils	--	--	--	--	-996	--	195	-1,624	2,101	-1,668	13,573
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	656	5,269	-3,639	286	1,960	39	0	43,323
Reformulated	--	0	--	--	234	1,229	-109	1,572	--	0	4,335
Conventional	--	-1	--	656	5,035	-4,868	395	388	39	0	38,987
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	119	133,240	1,292	-702	6,288	1,364	--	677	138,197	55,222
Finished Motor Gasoline	--	122	73,165	--	-62	6,288	-651	--	239	79,925	3,262
Reformulated	--	--	10,287	--	--	-1,109	--	--	--	9,178	--
Conventional	--	122	62,878	--	-62	7,398	-651	--	239	70,747	3,262
Finished Aviation Gasoline	--	--	30	2	--	--	12	--	--	20	203
Kerosene-Type Jet Fuel	--	--	7,088	--	1,440	--	-449	--	15	8,962	6,802
Kerosene	--	--	179	--	--	--	-202	--	0	381	98
Distillate Fuel Oil	--	-3	35,845	378	1,033	--	1,266	--	118	35,869	28,856
15 ppm sulfur and under	--	-3	35,796	373	886	--	1,108	--	2	35,943	28,054
Greater than 15 ppm to 500 ppm sulfur	--	--	95	3	147	--	76	--	31	138	397
Greater than 500 ppm sulfur	--	--	-46	2	--	--	82	--	86	-212	405
Residual Fuel Oil	--	--	1,130	78	-1,185	--	103	--	--	-80	1,188
Less than 0.31 percent sulfur	--	--	78	--	-130	--	29	--	NA	NA	219
0.31 to 1.00 percent sulfur	--	--	454	4	-167	--	21	--	NA	NA	244
Greater than 1.00 percent sulfur	--	--	598	74	-888	--	53	--	NA	NA	725
Petrochemical Feedstocks	--	--	788	148	-99	--	14	--	--	823	528
Naphtha for Petro. Feed. Use	--	--	400	83	-57	--	4	--	--	422	393
Other Oils for Petro. Feed. Use	--	--	388	65	-42	--	10	--	--	401	135
Special Naphthas	--	--	-12	4	--	--	5	--	--	-13	118
Lubricants	--	--	151	196	134	--	-7	--	150	338	722
Waxes	--	--	28	--	--	--	-1	--	28	1	47
Petroleum Coke	--	--	5,415	18	-1,014	--	513	--	47	3,859	2,619
Marketable	--	--	4,099	18	-1,014	--	513	--	47	2,543	2,619
Catalyst	--	--	1,316	--	--	--	--	--	--	1,316	--
Asphalt and Road Oil	--	--	4,804	468	-964	--	741	--	78	3,490	10,647
Still Gas	--	--	4,142	--	--	--	--	--	--	4,142	--
Miscellaneous Products	--	--	487	--	15	--	20	--	1	481	132
Total	77,204	30,707	133,909	86,360	-39,168	3,007	-4,303	127,693	13,375	155,254	282,346

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

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³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	606,206	--	--	1,032,707	-203,594	-23,688	-10,999	1,397,836	24,794	0	106,640
Hydrocarbon Gas Liquids	399,568	-7,675	41,296	27,077	-176,311	--	2,435	38,564	88,000	154,956	52,346
Natural Gas Liquids	399,568	-7,675	26,226	24,697	-166,511	--	2,612	38,564	88,000	147,129	51,963
Ethane	146,494	--	--	--	-74,927	--	-738	--	25,983	46,322	6,195
Propane	137,243	--	27,694	16,364	-113,741	--	1,588	--	1,674	64,298	23,026
Normal Butane	45,739	--	1,475	5,944	-42,884	--	1,233	7,541	1,492	8	10,086
Isobutane	24,037	--	-2,943	2,339	7,540	--	-323	21,856	30	9,410	2,029
Natural Gasoline	46,055	-7,675	--	50	57,501	--	852	9,167	58,821	27,091	10,627
Refinery Olefins	--	--	15,070	2,380	-9,800	--	-177	--	--	7,827	383
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	14,436	1,494	-9,800	--	-81	--	--	6,211	372
Normal Butylene	--	--	634	886	--	--	-96	--	--	1,616	11
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	379,016	--	6,404	-167,511	-26,295	-2,228	161,297	39,462	-6,916	68,139
Hydrogen/Biofuels/Other Hydrocarbons	--	379,021	--	1,060	-226,241	-16,258	623	106,800	11,739	18,419	11,243
Hydrogen	--	--	--	--	--	13,807	--	13,807	--	0	--
Biofuels (including Fuel Ethanol)	--	379,021	--	1,060	-226,241	-30,205	629	92,847	11,739	18,419	11,233
Fuel Ethanol	--	345,467	--	--	-217,230	-30,205	626	88,040	9,366	0	9,996
Biofuels (excluding Fuel Ethanol) ⁶	--	33,554	--	1,060	-9,011	--	3	4,807	2,374	18,419	1,237
Other Hydrocarbons	--	--	--	--	--	140	-6	146	--	0	10
Unfinished Oils	--	--	--	75	-7,962	--	303	-9,182	26,327	-25,335	13,573
Motor Gasoline Blend.Comp. (MGBC)	--	-5	--	5,269	66,692	-10,036	-3,154	63,679	1,395	0	43,323
Reformulated	--	-2	--	--	13,574	8,459	-314	22,345	--	0	4,335
Conventional	--	-3	--	5,269	53,118	-18,495	-2,840	41,334	1,395	0	38,987
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,577	1,636,165	15,673	9,262	40,242	772	--	13,152	1,688,995	55,222
Finished Motor Gasoline	--	1,609	897,120	--	7,966	40,242	-1,140	--	4,224	943,853	3,262
Reformulated	--	--	120,882	--	--	-6,884	--	--	--	113,998	--
Conventional	--	1,609	776,238	--	7,966	47,126	-1,140	--	4,224	829,856	3,262
Finished Aviation Gasoline	--	--	233	48	262	--	31	--	--	512	203
Kerosene-Type Jet Fuel	--	--	95,621	34	9,412	--	-19	--	233	104,853	6,802
Kerosene	--	0	1,422	--	26	--	-39	--	9	1,478	98
Distillate Fuel Oil	--	-32	428,574	3,534	25,010	--	-317	--	1,771	455,632	28,856
15 ppm sulfur and under	--	-32	428,472	3,343	23,517	--	-528	--	9	455,820	28,054
Greater than 15 ppm to 500 ppm sulfur	--	0	1,364	55	1,444	--	161	--	404	2,298	397
Greater than 500 ppm sulfur	--	0	-1,262	136	49	--	50	--	1,359	-2,486	405
Residual Fuel Oil	--	--	13,473	1,383	-10,428	--	231	--	11	4,186	1,188
Less than 0.31 percent sulfur	--	--	934	--	-1,013	--	168	--	NA	NA	219
0.31 to 1.00 percent sulfur	--	--	5,441	109	-3,829	--	48	--	NA	NA	244
Greater than 1.00 percent sulfur	--	--	7,098	1,274	-5,586	--	15	--	NA	NA	725
Petrochemical Feedstocks	--	--	10,398	1,773	-922	--	-4	--	--	11,253	528
Naphtha for Petro. Feed. Use	--	--	6,065	1,041	-757	--	-19	--	--	6,368	393
Other Oils for Petro. Feed. Use	--	--	4,333	732	-165	--	15	--	--	4,885	135
Special Naphthas	--	--	-314	85	99	--	-34	--	--	-96	118
Lubricants	--	--	2,454	2,571	2,175	--	1	--	2,269	4,930	722
Waxes	--	--	426	146	--	--	7	--	428	137	47
Petroleum Coke	--	--	67,321	260	-11,786	--	1,117	--	3,381	51,298	2,619
Marketable	--	--	50,192	260	-11,786	--	1,117	--	3,381	34,169	2,619
Catalyst	--	--	17,129	--	--	--	--	--	--	17,129	--
Asphalt and Road Oil	--	--	62,419	5,839	-12,643	--	930	--	813	53,872	10,647
Still Gas	--	--	51,261	--	--	--	--	--	--	51,261	--
Miscellaneous Products	--	--	5,757	--	90	--	8	--	14	5,825	132
Total	1,005,774	372,919	1,677,461	1,081,861	-538,154	-9,741	-10,020	1,597,697	165,407	1,837,035	282,346

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,559	--	--	2,652	-516	58	-6	3,688	70	0
Hydrocarbon Gas Liquids	932	-21	22	68	-284	--	-219	137	239	559
Natural Gas Liquids	932	-21	-12	61	-257	--	-218	137	239	546
Ethane	291	--	--	--	-143	--	-26	--	70	104
Propane	352	--	71	40	-261	--	-98	--	3	297
Normal Butane	112	--	-73	15	-97	--	-103	51	5	5
Isobutane	65	--	-10	6	17	--	-8	64	0	22
Natural Gasoline	112	-21	--	0	226	--	16	22	161	119
Refinery Olefins	--	--	33	7	-27	--	-1	--	--	14
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	33	4	-27	--	0	--	--	11
Normal Butylene	--	--	0	2	--	--	0	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,008	--	24	-441	-164	42	295	101	-9
Hydrogen/Biofuels/Other Hydrocarbons	--	1,008	--	3	-579	-46	27	284	32	45
Hydrogen	--	--	--	--	--	39	--	39	--	0
Biofuels (including Fuel Ethanol)	--	1,008	--	3	-579	-85	27	244	32	45
Fuel Ethanol	--	917	--	--	-546	-85	21	234	30	0
Biofuels (excluding Fuel Ethanol) ⁶	--	91	--	3	-33	--	6	10	1	45
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	--	-32	--	6	-52	68	-54
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	21	170	-117	9	63	1	0
Reformulated	--	0	--	--	8	40	-4	51	--	0
Conventional	--	0	--	21	162	-157	13	13	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,298	42	-23	203	44	--	22	4,458
Finished Motor Gasoline	--	4	2,360	--	-2	203	-21	--	8	2,578
Reformulated	--	--	332	--	--	-36	--	--	--	296
Conventional	--	4	2,028	--	-2	239	-21	--	8	2,282
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	229	--	46	--	-14	--	0	289
Kerosene	--	--	6	--	--	--	-7	--	0	12
Distillate Fuel Oil	--	0	1,156	12	33	--	41	--	4	1,157
15 ppm sulfur and under	--	0	1,155	12	29	--	36	--	0	1,159
Greater than 15 ppm to 500 ppm sulfur	--	--	3	0	5	--	2	--	1	4
Greater than 500 ppm sulfur	--	--	-1	0	--	--	3	--	3	-7
Residual Fuel Oil	--	--	36	3	-38	--	3	--	--	-3
Less than 0.31 percent sulfur	--	--	3	--	-4	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	0	-5	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	2	-29	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	25	5	-3	--	0	--	--	27
Naphtha for Petro. Feed. Use	--	--	13	3	-2	--	0	--	--	14
Other Oils for Petro. Feed. Use	--	--	13	2	-1	--	0	--	--	13
Special Naphthas	--	--	0	0	--	--	0	--	--	0
Lubricants	--	--	5	6	4	--	0	--	5	11
Waxes	--	--	1	--	--	--	0	--	1	0
Petroleum Coke	--	--	175	1	-33	--	17	--	2	124
Marketable	--	--	132	1	-33	--	17	--	2	82
Catalyst	--	--	42	--	--	--	--	--	--	42
Asphalt and Road Oil	--	--	155	15	-31	--	24	--	3	113
Still Gas	--	--	134	--	--	--	--	--	--	134
Miscellaneous Products	--	--	16	--	0	--	1	--	0	16
Total	2,490	991	4,320	2,786	-1,263	97	-139	4,119	431	5,008

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,661	--	--	2,829	-558	-65	-30	3,830	68	0
Hydrocarbon Gas Liquids	1,095	-21	113	74	-483	--	7	106	241	425
Natural Gas Liquids	1,095	-21	72	68	-456	--	7	106	241	403
Ethane	401	--	--	--	-205	--	-2	--	71	127
Propane	376	--	76	45	-312	--	4	--	5	176
Normal Butane	125	--	4	16	-117	--	3	21	4	0
Isobutane	66	--	-8	6	21	--	-1	60	0	26
Natural Gasoline	126	-21	--	0	158	--	2	25	161	74
Refinery Olefins	--	--	41	7	-27	--	0	--	--	21
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	4	-27	--	0	--	--	17
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,038	--	18	-459	-72	-6	442	108	-19
Hydrogen/Biofuels/Other Hydrocarbons	--	1,038	--	3	-620	-45	2	293	32	50
Hydrogen	--	--	--	--	--	38	--	38	--	0
Biofuels (including Fuel Ethanol)	--	1,038	--	3	-620	-83	2	254	32	50
Fuel Ethanol	--	946	--	--	-595	-83	2	241	26	0
Biofuels (excluding Fuel Ethanol) ⁶	--	92	--	3	-25	--	0	13	7	50
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-22	--	1	-25	72	-69
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	14	183	-27	-9	174	4	0
Reformulated	--	0	--	--	37	23	-1	61	--	0
Conventional	--	0	--	14	146	-51	-8	113	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,483	43	25	110	2	--	36	4,627
Finished Motor Gasoline	--	4	2,458	--	22	110	-3	--	12	2,586
Reformulated	--	--	331	--	--	-19	--	--	--	312
Conventional	--	4	2,127	--	22	129	-3	--	12	2,274
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	262	0	26	--	0	--	1	287
Kerosene	--	0	4	--	0	--	0	--	0	4
Distillate Fuel Oil	--	0	1,174	10	69	--	-1	--	5	1,248
15 ppm sulfur and under	--	0	1,174	9	64	--	-1	--	0	1,249
Greater than 15 ppm to 500 ppm sulfur	--	0	4	0	4	--	0	--	1	6
Greater than 500 ppm sulfur	--	0	-3	0	0	--	0	--	4	-7
Residual Fuel Oil	--	--	37	4	-29	--	1	--	0	11
Less than 0.31 percent sulfur	--	--	3	--	-3	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	0	-10	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	3	-15	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	28	5	-3	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	17	3	-2	--	0	--	--	17
Other Oils for Petro. Feed. Use	--	--	12	2	0	--	0	--	--	13
Special Naphthas	--	--	-1	0	0	--	0	--	--	0
Lubricants	--	--	7	7	6	--	0	--	6	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	184	1	-32	--	3	--	9	141
Marketable	--	--	138	1	-32	--	3	--	9	94
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	171	16	-35	--	3	--	2	148
Still Gas	--	--	140	--	--	--	--	--	--	140
Miscellaneous Products	--	--	16	--	0	--	0	--	0	16
Total	2,756	1,022	4,596	2,964	-1,474	-27	-27	4,377	453	5,033

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	274,367	--	--	34,367	30,570	25,485	-2,124	252,017	114,896	0	614,916
Hydrocarbon Gas Liquids	106,455	-15	9,711	--	17,179	--	-13,409	14,346	63,315	69,077	139,055
Natural Gas Liquids	106,455	-15	4,507	--	16,616	--	-13,448	14,346	63,315	63,349	137,813
Ethane	46,069	--	170	--	13,317	--	-2,241	--	10,189	51,608	45,455
Propane	32,694	--	4,632	--	5,205	--	-5,212	--	41,750	5,993	42,812
Normal Butane	7,037	--	-154	--	2,630	--	-4,963	5,913	11,142	-2,579	26,706
Isobutane	9,918	--	-141	--	589	--	513	4,047	193	5,613	9,310
Natural Gasoline	10,737	-15	--	--	-5,125	--	-1,545	4,386	42	2,713	13,530
Refinery Olefins	--	--	5,204	--	563	--	39	--	--	5,728	1,242
Ethylene	--	--	8	--	--	--	0	--	--	8	0
Propylene	--	--	5,600	--	563	--	205	--	--	5,958	805
Normal Butylene	--	--	-404	--	--	--	-166	--	--	-238	437
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	3,764	--	11,660	-55,951	-2,737	-1,895	-55,319	8,786	5,163	127,319
Hydrogen/Biofuels/Other Hydrocarbons	--	3,764	--	229	3,814	4,507	184	8,636	757	2,737	6,054
Hydrogen	--	--	--	--	--	3,788	--	3,788	--	0	--
Biofuels (including Fuel Ethanol)	--	3,764	--	225	3,814	723	184	4,848	757	2,737	6,054
Fuel Ethanol	--	720	--	--	4,052	723	412	4,491	593	0	4,486
Biofuels (excluding Fuel Ethanol) ⁷	--	3,044	--	225	-238	--	-228	357	164	2,737	1,567
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	11,304	1,044	--	1,684	3,584	4,646	2,434	47,644
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	127	-60,809	-7,244	-3,757	-67,553	3,384	0	73,588
Reformulated	--	--	--	--	-8,961	6,192	-1,030	-1,741	2	0	8,986
Conventional	--	--	--	127	-51,848	-13,436	-2,727	-65,812	3,382	0	64,602
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-6	14	--	-8	33
Finished Petroleum Products	--	2	218,963	5,727	-47,088	6,521	-8,031	--	90,563	101,592	97,966
Finished Motor Gasoline	--	0	67,395	--	-2,032	6,521	277	--	27,501	44,106	7,768
Reformulated	--	--	14,186	--	--	-5,143	--	--	--	9,043	--
Conventional	--	0	53,209	--	-2,032	11,664	277	--	27,501	35,063	7,768
Finished Aviation Gasoline	--	--	328	--	-50	--	101	--	--	177	551
Kerosene-Type Jet Fuel	--	--	24,272	123	-17,306	--	-2,217	--	3,713	5,593	9,595
Kerosene	--	--	556	--	-37	--	-182	--	484	217	409
Distillate Fuel Oil	--	2	86,432	57	-29,171	--	-7,254	--	40,301	24,273	38,559
15 ppm sulfur and under	--	2	80,508	57	-28,127	--	-6,074	--	34,588	23,926	32,712
Greater than 15 ppm to 500 ppm sulfur	--	0	2,880	--	-148	--	-229	--	2,834	127	1,131
Greater than 500 ppm sulfur	--	--	3,044	--	-896	--	-951	--	2,879	220	4,716
Residual Fuel Oil	--	--	3,474	3,622	1,185	--	900	--	3,447	3,934	18,640
Less than 0.31 percent sulfur	--	--	1,004	--	130	--	577	--	NA	NA	1,541
0.31 to 1.00 percent sulfur	--	--	1,208	--	167	--	-17	--	NA	NA	4,227
Greater than 1.00 percent sulfur	--	--	1,262	3,622	888	--	340	--	NA	NA	12,872
Petrochemical Feedstocks	--	--	5,031	85	130	--	-193	--	--	5,439	1,860
Naphtha for Petro. Feed. Use	--	--	2,986	24	57	--	-46	--	--	3,113	1,390
Other Oils for Petro. Feed. Use	--	--	2,045	61	73	--	-147	--	--	2,326	470
Special Naphthas	--	--	656	312	--	--	-56	--	--	1,024	766
Lubricants	--	--	3,838	1,228	-646	--	1,071	--	1,382	1,967	10,058
Waxes	--	--	91	44	--	--	-6	--	17	124	333
Petroleum Coke	--	--	13,385	256	768	--	-520	--	13,136	1,794	2,894
Marketable	--	--	10,520	256	768	--	-520	--	13,136	-1,071	2,894
Catalyst	--	--	2,865	--	--	--	--	--	--	2,865	--
Asphalt and Road Oil	--	--	1,551	--	85	--	138	--	555	943	5,930
Still Gas	--	--	10,426	--	--	--	--	--	--	10,426	--
Miscellaneous Products	--	--	1,528	--	-15	--	-90	--	27	1,576	603
Total	380,822	3,750	228,674	51,754	-55,291	29,269	-25,459	211,044	277,562	175,832	979,256

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	3,107,925	--	--	460,405	375,124	278,556	-203,819	3,156,049	1,269,781	0	614,916
Hydrocarbon Gas Liquids	1,296,889	-174	154,672	99	317,124	--	16,450	138,106	674,004	940,050	139,055
Natural Gas Liquids	1,296,889	-174	82,638	48	311,016	--	16,351	138,106	674,004	861,956	137,813
Ethane	568,639	--	2,261	--	200,537	--	-8,812	--	111,073	669,176	45,455
Propane	390,297	--	56,761	16	93,236	--	12,678	--	442,426	85,206	42,812
Normal Butane	88,795	--	26,045	30	42,402	--	5,963	38,720	117,343	-4,754	26,706
Isobutane	114,938	--	-2,429	--	7,029	--	2,896	50,093	1,827	64,722	9,310
Natural Gasoline	134,220	-174	--	2	-32,188	--	3,626	49,293	1,335	47,606	13,530
Refinery Olefins	--	--	72,034	51	6,108	--	99	--	--	78,094	1,242
Ethylene	--	--	102	--	--	--	0	--	--	102	--
Propylene	--	--	75,445	--	6,108	--	26	--	--	81,527	805
Normal Butylene	--	--	-3,262	51	--	--	89	--	--	-3,300	437
Isobutylene	--	--	-251	--	--	--	-16	--	--	-235	0
Other Liquids	--	38,831	--	169,638	-680,475	-8,634	5,072	-675,904	117,700	72,491	127,319
Hydrogen/Biofuels/Other Hydrocarbons	--	38,831	--	1,241	56,129	52,008	508	104,526	20,028	23,147	6,054
Hydrogen	--	--	--	--	--	46,721	--	46,721	--	0	--
Biofuels (including Fuel Ethanol)	--	38,831	--	1,161	56,129	5,367	508	57,805	20,028	23,147	6,054
Fuel Ethanol	--	8,445	--	--	59,083	5,367	610	53,695	18,589	0	4,486
Biofuels (excluding Fuel Ethanol) ⁷	--	30,386	--	1,161	-2,954	--	-102	4,110	1,439	23,147	1,567
Other Hydrocarbons	--	--	--	80	--	-80	--	--	--	0	--
Unfinished Oils	--	--	--	152,284	7,737	--	5,938	28,713	76,168	49,202	47,644
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	16,113	-744,341	-60,642	-1,382	-808,993	21,505	0	73,588
Reformulated	--	--	--	417	-133,186	41,863	-507	-90,412	13	0	8,986
Conventional	--	--	--	15,696	-611,155	-102,505	-875	-718,581	21,492	0	64,602
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	8	-150	--	142	33
Finished Petroleum Products	--	68	2,673,066	74,554	-545,820	55,275	2,861	--	1,009,306	1,244,976	97,966
Finished Motor Gasoline	--	0	793,011	179	-32,540	55,275	999	--	306,778	508,149	7,768
Reformulated	--	--	166,263	--	--	-33,918	--	--	--	132,345	--
Conventional	--	0	626,748	179	-32,540	89,194	999	--	306,778	375,804	7,768
Finished Aviation Gasoline	--	--	3,373	98	-1,146	--	44	--	--	2,281	551
Kerosene-Type Jet Fuel	--	--	301,488	124	-189,384	--	-1,467	--	56,497	57,198	9,595
Kerosene	--	--	1,838	--	-309	--	95	--	2,646	-1,212	409
Distillate Fuel Oil	--	68	1,070,517	328	-334,359	--	-676	--	425,842	311,388	38,559
15 ppm sulfur and under	--	68	1,001,064	193	-322,955	--	-1,837	--	365,683	314,524	32,712
Greater than 15 ppm to 500 ppm sulfur	--	0	29,137	25	-1,516	--	47	--	29,265	-1,666	1,131
Greater than 500 ppm sulfur	--	--	40,316	110	-9,888	--	1,114	--	30,894	-1,470	4,716
Residual Fuel Oil	--	--	29,153	49,748	10,163	--	3,311	--	30,191	55,562	18,640
Less than 0.31 percent sulfur	--	--	11,489	880	920	--	470	--	NA	NA	1,541
0.31 to 1.00 percent sulfur	--	--	15,343	2,021	3,829	--	-157	--	NA	NA	4,227
Greater than 1.00 percent sulfur	--	--	2,321	46,847	5,414	--	2,998	--	NA	NA	12,872
Petrochemical Feedstocks	--	--	70,371	2,493	953	--	-146	--	--	73,963	1,860
Naphtha for Petro. Feed. Use	--	--	39,821	2,060	757	--	-78	--	--	42,716	1,390
Other Oils for Petro. Feed. Use	--	--	30,550	433	196	--	-68	--	--	31,247	470
Special Naphthas	--	--	11,806	4,502	-124	--	-84	--	--	16,268	766
Lubricants	--	--	46,443	13,406	-7,908	--	389	--	26,237	25,315	10,058
Waxes	--	--	1,642	421	--	--	59	--	257	1,747	333
Petroleum Coke	--	--	165,551	3,196	10,128	--	-952	--	156,716	23,111	2,894
Marketable	--	--	128,715	3,196	10,128	--	-952	--	156,716	-13,725	2,894
Catalyst	--	--	36,836	--	--	--	--	--	--	36,836	--
Asphalt and Road Oil	--	--	28,352	59	-1,205	--	1,012	--	3,731	22,463	5,930
Still Gas	--	--	129,841	--	--	--	--	--	--	129,841	--
Miscellaneous Products	--	--	19,680	--	-90	--	277	--	412	18,901	603
Total	4,404,814	38,725	2,827,738	704,696	-534,048	325,197	-179,436	2,618,251	3,070,791	2,257,517	979,256

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,851	--	--	1,109	986	822	-69	8,130	3,706	0
Hydrocarbon Gas Liquids	3,434	0	313	--	554	--	-433	463	2,042	2,228
Natural Gas Liquids	3,434	0	145	--	536	--	-434	463	2,042	2,044
Ethane	1,486	--	5	--	430	--	-72	--	329	1,665
Propane	1,055	--	149	--	168	--	-168	--	1,347	193
Normal Butane	227	--	-5	--	85	--	-160	191	359	-83
Isobutane	320	--	-5	--	19	--	17	131	6	181
Natural Gasoline	346	0	--	--	-165	--	-50	141	1	88
Refinery Olefins	--	--	168	--	18	--	1	--	--	185
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	181	--	18	--	7	--	--	192
Normal Butylene	--	--	-13	--	--	--	-5	--	--	-8
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	121	--	376	-1,805	-88	-61	-1,784	283	167
Hydrogen/Biofuels/Other Hydrocarbons	--	121	--	7	123	145	6	279	24	88
Hydrogen	--	--	--	--	--	122	--	122	--	0
Biofuels (including Fuel Ethanol)	--	121	--	7	123	23	6	156	24	88
Fuel Ethanol	--	23	--	--	131	23	13	145	19	0
Biofuels (excluding Fuel Ethanol) ⁷	--	98	--	7	-8	--	-7	12	5	88
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	365	34	--	54	116	150	79
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	-1,962	-234	-121	-2,179	109	0
Reformulated	--	--	--	--	-289	200	-33	-56	0	0
Conventional	--	--	--	4	-1,673	-433	-88	-2,123	109	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	0	7,063	185	-1,519	210	-259	--	2,921	3,277
Finished Motor Gasoline	--	0	2,174	--	-66	210	9	--	887	1,423
Reformulated	--	--	458	--	--	-166	--	--	--	292
Conventional	--	0	1,716	--	-66	376	9	--	887	1,131
Finished Aviation Gasoline	--	--	11	--	-2	--	3	--	--	6
Kerosene-Type Jet Fuel	--	--	783	4	-558	--	-72	--	120	180
Kerosene	--	--	18	--	-1	--	-6	--	16	7
Distillate Fuel Oil	--	0	2,788	2	-941	--	-234	--	1,300	783
15 ppm sulfur and under	--	0	2,597	2	-907	--	-196	--	1,116	772
Greater than 15 ppm to 500 ppm sulfur	--	0	93	--	-5	--	-7	--	91	4
Greater than 500 ppm sulfur	--	--	98	--	-29	--	-31	--	93	7
Residual Fuel Oil	--	--	112	117	38	--	29	--	111	127
Less than 0.31 percent sulfur	--	--	32	--	4	--	19	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	39	--	5	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	117	29	--	11	--	NA	NA
Petrochemical Feedstocks	--	--	162	3	4	--	-6	--	--	175
Naphtha for Petro. Feed. Use	--	--	96	1	2	--	-1	--	--	100
Other Oils for Petro. Feed. Use	--	--	66	2	2	--	-5	--	--	75
Special Naphthas	--	--	21	10	--	--	-2	--	--	33
Lubricants	--	--	124	40	-21	--	35	--	45	63
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	432	8	25	--	-17	--	424	58
Marketable	--	--	339	8	25	--	-17	--	424	-35
Catalyst	--	--	92	--	--	--	--	--	--	92
Asphalt and Road Oil	--	--	50	--	3	--	4	--	18	30
Still Gas	--	--	336	--	--	--	--	--	--	336
Miscellaneous Products	--	--	49	--	0	--	-3	--	1	51
Total	12,285	121	7,377	1,669	-1,784	944	-821	6,808	8,954	5,672

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,515	--	--	1,261	1,028	763	-558	8,647	3,479	0
Hydrocarbon Gas Liquids	3,553	0	424	0	869	--	45	378	1,847	2,575
Natural Gas Liquids	3,553	0	226	0	852	--	45	378	1,847	2,362
Ethane	1,558	--	6	--	549	--	-24	--	304	1,833
Propane	1,069	--	156	0	255	--	35	--	1,212	233
Normal Butane	243	--	71	0	116	--	16	106	321	-13
Isobutane	315	--	-7	--	19	--	8	137	5	177
Natural Gasoline	368	0	--	0	-88	--	10	135	4	130
Refinery Olefins	--	--	197	0	17	--	0	--	--	214
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	207	--	17	--	0	--	--	223
Normal Butylene	--	--	-9	0	--	--	0	--	--	-9
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	106	--	465	-1,864	-24	14	-1,852	322	199
Hydrogen/Biofuels/Other Hydrocarbons	--	106	--	3	154	142	1	286	55	63
Hydrogen	--	--	--	--	--	128	--	128	--	0
Biofuels (including Fuel Ethanol)	--	106	--	3	154	15	1	158	55	63
Fuel Ethanol	--	23	--	--	162	15	2	147	51	0
Biofuels (excluding Fuel Ethanol) ⁷	--	83	--	3	-8	--	0	11	4	63
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	417	21	--	16	79	209	135
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	44	-2,039	-166	-4	-2,216	59	0
Reformulated	--	--	--	1	-365	115	-1	-248	0	0
Conventional	--	--	--	43	-1,674	-281	-2	-1,969	59	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	0	7,323	204	-1,495	151	8	--	2,765	3,411
Finished Motor Gasoline	--	0	2,173	0	-89	151	3	--	840	1,392
Reformulated	--	--	456	--	--	-93	--	--	--	363
Conventional	--	0	1,717	0	-89	244	3	--	840	1,030
Finished Aviation Gasoline	--	--	9	0	-3	--	0	--	--	6
Kerosene-Type Jet Fuel	--	--	826	0	-519	--	-4	--	155	157
Kerosene	--	--	5	--	-1	--	0	--	7	-3
Distillate Fuel Oil	--	0	2,933	1	-916	--	-2	--	1,167	853
15 ppm sulfur and under	--	0	2,743	1	-885	--	-5	--	1,002	862
Greater than 15 ppm to 500 ppm sulfur	--	0	80	0	-4	--	0	--	80	-5
Greater than 500 ppm sulfur	--	--	110	0	-27	--	3	--	85	-4
Residual Fuel Oil	--	--	80	136	28	--	9	--	83	152
Less than 0.31 percent sulfur	--	--	31	2	3	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	42	6	10	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	6	128	15	--	8	--	NA	NA
Petrochemical Feedstocks	--	--	193	7	3	--	0	--	--	203
Naphtha for Petro. Feed. Use	--	--	109	6	2	--	0	--	--	117
Other Oils for Petro. Feed. Use	--	--	84	1	1	--	0	--	--	86
Special Naphthas	--	--	32	12	0	--	0	--	--	45
Lubricants	--	--	127	37	-22	--	1	--	72	69
Waxes	--	--	4	1	--	--	0	--	1	5
Petroleum Coke	--	--	454	9	28	--	-3	--	429	63
Marketable	--	--	353	9	28	--	-3	--	429	-38
Catalyst	--	--	101	--	--	--	--	--	--	101
Asphalt and Road Oil	--	--	78	0	-3	--	3	--	10	62
Still Gas	--	--	356	--	--	--	--	--	--	356
Miscellaneous Products	--	--	54	--	0	--	1	--	1	52
Total	12,068	106	7,747	1,931	-1,463	891	-492	7,173	8,413	6,185

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	26,384	--	--	12,459	-20,250	-1,730	-426	17,289	--	0	24,421
Hydrocarbon Gas Liquids	13,687	-9	99	927	-13,278	--	-958	627	9	1,748	6,120
Natural Gas Liquids	13,687	-9	9	927	-13,278	--	-938	627	9	1,638	6,042
Ethane	3,771	--	--	--	-4,018	--	-37	--	--	-210	1,036
Propane	4,984	--	191	891	-4,544	--	-394	--	0	1,916	2,397
Normal Butane	2,047	--	-193	36	-2,198	--	-464	344	--	-188	1,411
Isobutane	876	--	11	--	-872	--	-13	156	--	-128	425
Natural Gasoline	2,009	-9	--	--	-1,646	--	-30	127	9	248	773
Refinery Olefins	--	--	90	--	--	--	-20	--	--	110	78
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	46	--	--	--	3	--	--	43	10
Normal Butylene	--	--	44	--	--	--	-23	--	--	67	68
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	873	--	53	496	98	385	699	6	429	9,706
Hydrogen/Biofuels/Other Hydrocarbons	--	873	--	10	349	295	55	1,081	--	390	580
Hydrogen	--	--	--	--	--	154	--	154	--	0	--
Biofuels (including Fuel Ethanol)	--	873	--	10	349	141	55	927	--	390	580
Fuel Ethanol	--	409	--	--	311	141	-1	862	--	0	342
Biofuels (excluding Fuel Ethanol) ⁶	--	465	--	10	37	--	56	65	--	390	238
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	10	--	--	249	-278	--	39	2,995
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	33	147	-197	81	-104	6	0	6,131
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	33	147	-197	81	-104	6	0	6,131
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	19,523	137	-309	56	285	--	17	19,105	7,940
Finished Motor Gasoline	--	--	10,139	--	-438	56	125	--	--	9,632	1,286
Reformulated	--	--	--	--	--	--	-1	--	--	1	--
Conventional	--	--	10,139	--	-438	56	126	--	--	9,631	1,286
Finished Aviation Gasoline	--	--	3	1	--	--	0	--	--	4	9
Kerosene-Type Jet Fuel	--	--	1,057	--	491	--	-125	--	--	1,673	755
Kerosene	--	--	2	--	--	--	1	--	--	1	2
Distillate Fuel Oil	--	0	5,662	28	217	--	52	--	--	5,855	3,694
15 ppm sulfur and under	--	0	5,629	28	217	--	28	--	--	5,846	3,498
Greater than 15 ppm to 500 ppm sulfur	--	--	30	--	--	--	21	--	--	9	148
Greater than 500 ppm sulfur	--	--	3	--	--	--	3	--	--	0	48
Residual Fuel Oil	--	--	341	--	--	--	16	--	--	325	210
Less than 0.31 percent sulfur	--	--	165	--	--	--	-3	--	NA	NA	26
0.31 to 1.00 percent sulfur	--	--	21	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	155	--	--	--	19	--	NA	NA	180
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	3	--	--	--	--	--	3	--
Lubricants	--	--	--	--	--	--	--	--	16	-16	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	676	--	-230	--	21	--	--	425	97
Marketable	--	--	466	--	-230	--	21	--	--	215	97
Catalyst	--	--	210	--	--	--	--	--	--	210	--
Asphalt and Road Oil	--	--	903	105	-348	--	202	--	1	457	1,871
Still Gas	--	--	633	--	--	--	--	--	--	633	--
Miscellaneous Products	--	--	107	--	--	--	-7	--	--	114	16
Total	40,071	864	19,622	13,576	-33,341	-1,576	-714	18,615	32	21,282	48,188

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	315,533	--	--	142,374	-235,653	-10,609	95	211,549	0	0	24,421
Hydrocarbon Gas Liquids	194,145	-121	4,016	4,970	-180,461	--	-1,059	6,254	405	16,949	6,120
Natural Gas Liquids	194,145	-121	2,620	4,970	-180,461	--	-1,061	6,254	405	15,555	6,042
Ethane	61,217	--	--	--	-63,452	--	-263	--	1	-1,973	1,036
Propane	67,371	--	2,512	4,685	-58,970	--	-436	--	10	16,024	2,397
Normal Butane	26,642	--	143	262	-23,782	--	-408	2,419	26	1,228	1,411
Isobutane	11,896	--	-35	22	-12,033	--	-13	1,974	--	-2,111	425
Natural Gasoline	27,019	-121	--	1	-22,224	--	59	1,861	368	2,387	773
Refinery Olefins	--	--	1,396	--	--	--	2	--	--	1,394	78
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	463	--	--	--	7	--	--	456	10
Normal Butylene	--	--	933	--	--	--	-5	--	--	938	68
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	8,715	--	850	11,097	2,802	-49	18,767	145	4,601	9,706
Hydrogen/Biofuels/Other Hydrocarbons	--	8,715	--	112	4,432	3,966	160	14,111	121	2,832	580
Hydrogen	--	--	--	--	--	2,448	--	2,448	--	0	--
Biofuels (including Fuel Ethanol)	--	8,715	--	112	4,432	1,518	160	11,663	121	2,832	580
Fuel Ethanol	--	5,171	--	7	4,114	1,518	-37	10,845	2	0	342
Biofuels (excluding Fuel Ethanol) ⁶	--	3,544	--	105	318	--	198	818	119	2,832	238
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	173	--	--	225	-1,823	2	1,769	2,995
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	565	6,665	-1,164	-434	6,479	21	0	6,131
Reformulated	--	--	--	--	40	-40	--	--	--	--	--
Conventional	--	--	--	565	6,625	-1,124	-434	6,479	21	0	6,131
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-5	242,589	2,926	-2,398	-354	-795	--	186	243,367	7,940
Finished Motor Gasoline	--	--	125,551	20	-4,217	-354	-296	--	9	121,287	1,286
Reformulated	--	--	--	--	--	44	0	--	--	44	--
Conventional	--	--	125,551	20	-4,217	-398	-296	--	9	121,243	1,286
Finished Aviation Gasoline	--	--	49	6	--	--	0	--	--	55	9
Kerosene-Type Jet Fuel	--	--	12,527	311	7,598	--	63	--	1	20,372	755
Kerosene	--	--	4	--	--	--	1	--	--	3	2
Distillate Fuel Oil	--	-5	71,721	1,624	1,379	--	-832	--	1	75,549	3,694
15 ppm sulfur and under	--	-5	71,036	1,621	1,379	--	-799	--	0	74,829	3,498
Greater than 15 ppm to 500 ppm sulfur	--	--	703	--	--	--	-15	--	1	717	148
Greater than 500 ppm sulfur	--	--	-18	3	--	--	-18	--	--	3	48
Residual Fuel Oil	--	--	3,927	--	--	--	-2	--	--	3,929	210
Less than 0.31 percent sulfur	--	--	2,009	--	--	--	4	--	NA	NA	26
0.31 to 1.00 percent sulfur	--	--	425	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,493	--	--	--	-6	--	NA	NA	180
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	3	--	--	--	--	--	3	--
Lubricants	--	--	--	--	--	--	--	--	152	-152	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	7,453	--	-1,954	--	-40	--	0	5,538	97
Marketable	--	--	4,936	--	-1,954	--	-40	--	0	3,021	97
Catalyst	--	--	2,517	--	--	--	--	--	--	2,517	--
Asphalt and Road Oil	--	--	12,183	951	-5,203	--	312	--	22	7,596	1,871
Still Gas	--	--	7,716	--	--	--	--	--	--	7,716	--
Miscellaneous Products	--	--	1,458	11	--	--	-1	--	0	1,470	16
Total	509,678	8,589	246,605	151,120	-407,416	-8,161	-1,807	236,570	736	264,916	48,188

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	851	--	--	402	-653	-56	-14	558	--	0
Hydrocarbon Gas Liquids	442	0	3	30	-428	--	-31	20	0	56
Natural Gas Liquids	442	0	0	30	-428	--	-30	20	0	53
Ethane	122	--	--	--	-130	--	-1	--	--	-7
Propane	161	--	6	29	-147	--	-13	--	0	62
Normal Butane	66	--	-6	1	-71	--	-15	11	--	-6
Isobutane	28	--	0	--	-28	--	0	5	--	-4
Natural Gasoline	65	0	--	--	-53	--	-1	4	0	8
Refinery Olefins	--	--	3	--	--	--	-1	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	1	--	--	--	-1	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	28	--	2	16	3	12	23	0	14
Hydrogen/Biofuels/Other Hydrocarbons	--	28	--	0	11	10	2	35	--	13
Hydrogen	--	--	--	--	--	5	--	5	--	0
Biofuels (including Fuel Ethanol)	--	28	--	0	11	5	2	30	--	13
Fuel Ethanol	--	13	--	--	10	5	0	28	--	0
Biofuels (excluding Fuel Ethanol) ⁶	--	15	--	0	1	--	2	2	--	13
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	8	-9	--	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	5	-6	3	-3	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	1	5	-6	3	-3	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	630	4	-10	2	9	--	1	616
Finished Motor Gasoline	--	--	327	--	-14	2	4	--	--	311
Reformulated	--	--	--	--	--	--	0	--	--	0
Conventional	--	--	327	--	-14	2	4	--	--	311
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	--	16	--	-4	--	--	54
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	183	1	7	--	2	--	--	189
15 ppm sulfur and under	--	0	182	1	7	--	1	--	--	189
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	1	--	--	0
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	1	--	--	10
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	0	--	--	--	--	--	0
Lubricants	--	--	--	--	--	--	--	--	1	-1
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	22	--	-7	--	1	--	--	14
Marketable	--	--	15	--	-7	--	1	--	--	7
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	29	3	-11	--	7	--	0	15
Still Gas	--	--	20	--	--	--	--	--	--	20
Miscellaneous Products	--	--	3	--	--	--	0	--	--	4
Total	1,293	28	633	438	-1,076	-51	-23	600	1	687

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	864	--	--	390	-646	-29	0	580	0	0
Hydrocarbon Gas Liquids	532	0	11	14	-494	--	-3	17	1	46
Natural Gas Liquids	532	0	7	14	-494	--	-3	17	1	43
Ethane	168	--	--	--	-174	--	-1	--	0	-5
Propane	185	--	7	13	-162	--	-1	--	0	44
Normal Butane	73	--	0	1	-65	--	-1	7	0	3
Isobutane	33	--	0	0	-33	--	0	5	--	-6
Natural Gasoline	74	0	--	0	-61	--	0	5	1	7
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	3	--	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	24	--	2	30	8	0	51	0	13
Hydrogen/Biofuels/Other Hydrocarbons	--	24	--	0	12	11	0	39	0	8
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	24	--	0	12	4	0	32	0	8
Fuel Ethanol	--	14	--	0	11	4	0	30	0	0
Biofuels (excluding Fuel Ethanol) ⁶	--	10	--	0	1	--	1	2	0	8
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	1	-5	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	18	-3	-1	18	0	0
Reformulated	--	--	--	--	0	0	--	--	--	--
Conventional	--	--	--	2	18	-3	-1	18	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	665	8	-7	-1	-2	--	1	667
Finished Motor Gasoline	--	--	344	0	-12	-1	-1	--	0	332
Reformulated	--	--	--	--	--	0	0	--	--	0
Conventional	--	--	344	0	-12	-1	-1	--	0	332
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	1	21	--	0	--	0	56
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	196	4	4	--	-2	--	0	207
15 ppm sulfur and under	--	0	195	4	4	--	-2	--	0	205
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	0	2
Greater than 500 ppm sulfur	--	--	0	0	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	--	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	0	--	--	--	--	--	0
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	20	--	-5	--	0	--	0	15
Marketable	--	--	14	--	-5	--	0	--	0	8
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	33	3	-14	--	1	--	0	21
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,396	24	676	414	-1,116	-22	-5	648	2	726

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	24,162	--	--	37,673	2,234	3,979	-720	67,788	980	0	48,002
Hydrocarbon Gas Liquids	2,192	-5	-406	1,610	2,077	--	-1,454	3,128	1,576	2,218	3,856
Natural Gas Liquids	2,192	-5	-547	1,610	2,077	--	-1,444	3,128	1,576	2,067	3,839
Ethane	1	--	--	--	--	--	--	--	--	1	--
Propane	239	--	697	1,081	674	--	-647	--	1,105	2,233	1,480
Normal Butane	632	--	-1,283	529	1,262	--	-727	1,441	385	41	2,033
Isobutane	212	--	39	--	141	--	-66	632	1	-175	304
Natural Gasoline	1,108	-5	--	--	--	--	-4	1,055	85	-33	22
Refinery Olefins	--	--	141	--	--	--	-10	--	--	151	17
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	146	--	--	--	3	--	--	143	14
Normal Butylene	--	--	-5	--	--	--	-13	--	--	8	3
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	1,017	--	3,240	9,532	-1,031	1,899	8,352	302	2,205	54,542
Hydrogen/Biofuels/Other Hydrocarbons	--	1,017	--	850	4,533	1,978	509	6,503	132	1,234	5,715
Hydrogen	--	--	--	--	--	1,368	--	1,368	--	0	--
Biofuels (including Fuel Ethanol)	--	1,017	--	850	4,533	610	509	5,135	132	1,234	5,715
Fuel Ethanol	--	187	--	--	3,571	610	-114	4,380	102	0	2,568
Biofuels (excluding Fuel Ethanol) ⁶	--	830	--	850	961	--	623	755	29	1,234	3,147
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,761	--	--	350	419	21	971	18,476
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	629	4,999	-3,009	1,040	1,430	149	0	30,351
Reformulated	--	0	--	--	2,031	-608	758	664	1	0	15,353
Conventional	--	--	--	629	2,968	-2,400	282	766	149	0	14,998
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	60	84,033	3,352	1,549	2,399	2,117	--	11,384	77,891	34,634
Finished Motor Gasoline	--	59	43,035	491	100	2,399	288	--	2,020	43,776	2,202
Reformulated	--	--	29,994	--	--	604	-2	--	--	30,600	15
Conventional	--	59	13,041	491	100	1,795	290	--	2,020	13,176	2,187
Finished Aviation Gasoline	--	--	50	2	--	--	35	--	--	17	337
Kerosene-Type Jet Fuel	--	2	13,355	2,417	285	--	94	--	1,175	14,790	8,930
Kerosene	--	--	5	--	--	--	0	--	--	5	3
Distillate Fuel Oil	--	-2	15,809	171	845	--	552	--	3,485	12,786	13,298
15 ppm sulfur and under	--	-2	15,131	171	845	--	550	--	2,884	12,711	12,374
Greater than 15 ppm to 500 ppm sulfur	--	--	308	--	--	--	-64	--	423	-51	232
Greater than 500 ppm sulfur	--	--	370	--	--	--	66	--	178	126	692
Residual Fuel Oil	--	--	2,302	112	--	--	622	--	866	926	5,090
Less than 0.31 percent sulfur	--	--	39	--	--	--	139	--	NA	NA	701
0.31 to 1.00 percent sulfur	--	--	647	38	--	--	28	--	NA	NA	854
Greater than 1.00 percent sulfur	--	--	1,616	74	--	--	455	--	NA	NA	3,535
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	24	23	--	--	7	--	--	40	32
Lubricants	--	--	332	59	--	--	187	--	71	133	1,027
Waxes	--	--	--	13	--	--	--	--	4	9	--
Petroleum Coke	--	--	4,082	--	-39	--	-33	--	3,742	334	1,264
Marketable	--	--	3,184	--	-39	--	-33	--	3,742	-564	1,264
Catalyst	--	--	898	--	--	--	--	--	--	898	--
Asphalt and Road Oil	--	--	749	64	358	--	362	--	21	788	2,373
Still Gas	--	--	3,853	--	--	--	--	--	--	3,853	--
Miscellaneous Products	--	--	437	--	--	--	3	--	1	433	78
Total	26,354	1,072	83,627	45,875	15,392	5,347	1,842	79,268	14,243	82,314	141,034

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	284,921	--	--	437,994	30,232	26,323	1,254	775,689	2,528	0	48,002
Hydrocarbon Gas Liquids	25,526	-66	15,219	16,623	12,963	--	259	28,925	18,752	22,328	3,856
Natural Gas Liquids	25,526	-66	13,545	16,623	12,963	--	292	28,925	18,752	20,621	3,839
Ethane	8	--	--	--	--	--	0	--	7	1	--
Propane	2,903	--	11,349	9,834	5,070	--	-190	--	9,676	19,670	1,480
Normal Butane	6,974	--	1,425	6,673	6,215	--	520	9,561	8,711	2,495	2,033
Isobutane	3,218	--	771	116	1,678	--	-30	7,871	25	-2,083	304
Natural Gasoline	12,423	-66	--	--	--	--	-8	11,493	333	539	22
Refinery Olefins	--	--	1,674	--	--	--	-33	--	--	1,707	17
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,929	--	--	--	-2	--	--	1,931	14
Normal Butylene	--	--	-255	--	--	--	-31	--	--	-224	3
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	12,133	--	43,173	114,358	-1,075	3,042	136,098	8,566	20,883	54,542
Hydrogen/Biofuels/Other Hydrocarbons	--	12,134	--	8,530	59,355	19,430	723	79,189	5,328	14,210	5,715
Hydrogen	--	--	--	--	--	16,458	--	16,458	--	0	--
Biofuels (including Fuel Ethanol)	--	12,134	--	8,530	59,355	2,972	723	62,731	5,328	14,210	5,715
Fuel Ethanol	--	2,572	--	1,194	49,700	2,972	210	53,587	2,641	0	2,568
Biofuels (excluding Fuel Ethanol) ⁶	--	9,561	--	7,336	9,655	--	512	9,144	2,686	14,210	3,147
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	22,243	276	--	-457	14,963	1,339	6,674	18,476
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12,400	54,727	-20,505	2,776	41,946	1,899	0	30,351
Reformulated	--	0	--	1,615	22,942	1,972	1,522	24,989	17	0	15,353
Conventional	--	--	--	10,785	31,785	-22,476	1,254	16,957	1,883	0	14,998
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	730	985,495	53,719	23,866	17,533	2,768	--	91,783	986,792	34,634
Finished Motor Gasoline	--	663	523,872	8,704	1,071	17,533	128	--	11,081	540,634	2,202
Reformulated	--	--	365,762	--	--	917	-1	--	--	366,680	15
Conventional	--	663	158,110	8,704	1,071	16,616	129	--	11,081	173,954	2,187
Finished Aviation Gasoline	--	--	386	24	--	--	21	--	--	389	337
Kerosene-Type Jet Fuel	--	86	147,471	31,795	3,276	--	864	--	7,893	173,871	8,930
Kerosene	--	--	76	18	--	--	-32	--	207	-81	3
Distillate Fuel Oil	--	-19	177,111	7,943	14,543	--	886	--	24,992	173,700	13,298
15 ppm sulfur and under	--	-19	167,772	6,492	14,543	--	765	--	19,791	168,233	12,374
Greater than 15 ppm to 500 ppm sulfur	--	--	3,714	1,260	--	--	-35	--	2,070	2,939	232
Greater than 500 ppm sulfur	--	--	5,625	191	--	--	156	--	3,132	2,528	692
Residual Fuel Oil	--	--	29,311	3,328	--	--	740	--	6,761	25,138	5,090
Less than 0.31 percent sulfur	--	--	546	--	--	--	-388	--	NA	NA	701
0.31 to 1.00 percent sulfur	--	--	7,840	1,861	--	--	419	--	NA	NA	854
Greater than 1.00 percent sulfur	--	--	20,925	1,467	--	--	709	--	NA	NA	3,535
Petrochemical Feedstocks	--	--	--	349	--	--	-2	--	--	351	--
Naphtha for Petro. Feed. Use	--	--	--	349	--	--	-2	--	--	351	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	351	23	--	--	14	--	--	360	32
Lubricants	--	--	4,136	351	-212	--	78	--	2,624	1,573	1,027
Waxes	--	--	--	369	--	--	--	--	51	318	--
Petroleum Coke	--	--	45,974	--	-496	--	-71	--	37,839	7,710	1,264
Marketable	--	--	35,309	--	-496	--	-71	--	37,839	-2,955	1,264
Catalyst	--	--	10,665	--	--	--	--	--	--	10,665	--
Asphalt and Road Oil	--	--	9,646	815	5,684	--	151	--	328	15,666	2,373
Still Gas	--	--	42,535	--	--	--	--	--	--	42,535	--
Miscellaneous Products	--	--	4,626	--	--	--	-9	--	7	4,628	78
Total	310,447	12,797	1,000,714	551,509	181,419	42,781	7,323	940,712	121,630	1,030,003	141,034

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	779	--	--	1,215	72	128	-23	2,187	32	0
Hydrocarbon Gas Liquids	71	0	-13	52	67	--	-47	101	51	72
Natural Gas Liquids	71	0	-18	52	67	--	-47	101	51	67
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	8	--	22	35	22	--	-21	--	36	72
Normal Butane	20	--	-41	17	41	--	-23	46	12	1
Isobutane	7	--	1	--	5	--	-2	20	0	-6
Natural Gasoline	36	0	--	--	--	--	0	34	3	-1
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	105	307	-33	61	269	10	71
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	27	146	64	16	210	4	40
Hydrogen	--	--	--	--	--	44	--	44	--	0
Biofuels (including Fuel Ethanol)	--	33	--	27	146	20	16	166	4	40
Fuel Ethanol	--	6	--	--	115	20	-4	141	3	0
Biofuels (excluding Fuel Ethanol) ⁶	--	27	--	27	31	--	20	24	1	40
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	57	--	--	11	14	1	31
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	20	161	-97	34	46	5	0
Reformulated	--	0	--	--	66	-20	24	21	0	0
Conventional	--	--	--	20	96	-77	9	25	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,711	108	50	77	68	--	367	2,513
Finished Motor Gasoline	--	2	1,388	16	3	77	9	--	65	1,412
Reformulated	--	--	968	--	--	19	0	--	--	987
Conventional	--	2	421	16	3	58	9	--	65	425
Finished Aviation Gasoline	--	--	2	0	--	--	1	--	--	1
Kerosene-Type Jet Fuel	--	0	431	78	9	--	3	--	38	477
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	510	6	27	--	18	--	112	412
15 ppm sulfur and under	--	0	488	6	27	--	18	--	93	410
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	-2	--	14	-2
Greater than 500 ppm sulfur	--	--	12	--	--	--	2	--	6	4
Residual Fuel Oil	--	--	74	4	--	--	20	--	28	30
Less than 0.31 percent sulfur	--	--	1	--	--	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	1	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	52	2	--	--	15	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	1	--	--	0	--	--	1
Lubricants	--	--	11	2	--	--	6	--	2	4
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	132	--	-1	--	-1	--	121	11
Marketable	--	--	103	--	-1	--	-1	--	121	-18
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	24	2	12	--	12	--	1	25
Still Gas	--	--	124	--	--	--	--	--	--	124
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	850	35	2,698	1,480	497	172	59	2,557	459	2,655

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	781	--	--	1,200	83	72	3	2,125	7	0
Hydrocarbon Gas Liquids	70	0	42	46	36	--	1	79	51	61
Natural Gas Liquids	70	0	37	46	36	--	1	79	51	56
Ethane	0	--	--	--	--	--	0	--	0	0
Propane	8	--	31	27	14	--	-1	--	27	54
Normal Butane	19	--	4	18	17	--	1	26	24	7
Isobutane	9	--	2	0	5	--	0	22	0	-6
Natural Gasoline	34	0	--	--	--	--	0	31	1	1
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	118	313	-3	8	373	23	57
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	23	163	53	2	217	15	39
Hydrogen	--	--	--	--	--	45	--	45	--	0
Biofuels (including Fuel Ethanol)	--	33	--	23	163	8	2	172	15	39
Fuel Ethanol	--	7	--	3	136	8	1	147	7	0
Biofuels (excluding Fuel Ethanol) ⁶	--	26	--	20	26	--	1	25	7	39
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	1	--	-1	41	4	18
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	34	150	-56	8	115	5	0
Reformulated	--	0	--	4	63	5	4	68	0	0
Conventional	--	--	--	30	87	-62	3	46	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,700	147	65	48	8	--	251	2,704
Finished Motor Gasoline	--	2	1,435	24	3	48	0	--	30	1,481
Reformulated	--	--	1,002	--	--	3	0	--	--	1,005
Conventional	--	2	433	24	3	46	0	--	30	477
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	0	404	87	9	--	2	--	22	476
Kerosene	--	--	0	0	--	--	0	--	1	0
Distillate Fuel Oil	--	0	485	22	40	--	2	--	68	476
15 ppm sulfur and under	--	0	460	18	40	--	2	--	54	461
Greater than 15 ppm to 500 ppm sulfur	--	--	10	3	--	--	0	--	6	8
Greater than 500 ppm sulfur	--	--	15	1	--	--	0	--	9	7
Residual Fuel Oil	--	--	80	9	--	--	2	--	19	69
Less than 0.31 percent sulfur	--	--	1	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	5	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	57	4	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	11	1	-1	--	0	--	7	4
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	126	--	-1	--	0	--	104	21
Marketable	--	--	97	--	-1	--	0	--	104	-8
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	26	2	16	--	0	--	1	43
Still Gas	--	--	117	--	--	--	--	--	--	117
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	851	35	2,742	1,511	497	117	20	2,577	333	2,822

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, December 2022
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,902	48,320	274,367	26,384	24,162	375,136	12,101
Alaskan	--	--	--	--	--	13,846	447
Lower 48 States	--	--	--	--	--	361,290	11,655
Imports (PAD District of Entry)	18,987	82,208	34,367	12,459	37,673	185,694	5,990
Commercial	18,987	82,208	34,367	12,459	37,673	185,694	5,990
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	3,452	-16,007	30,570	-20,250	2,234	--	--
Adjustments ¹	806	1,788	25,485	-1,730	3,979	30,328	978
Disposition							
Stock Change ²	272	-179	-2,124	-426	-720	-3,177	-102
Commercial	272	-179	14,265	-426	-720	13,212	426
SPR	--	--	-16,389	--	--	-16,389	-529
Refinery Inputs	23,493	114,315	252,017	17,289	67,788	474,902	15,319
Exports	1,383	2,173	114,896	--	980	119,433	3,853
Ending Stocks							
Total	7,612	106,640	614,916	24,421	48,002	801,591	--
Commercial	7,612	106,640	242,886	24,421	48,002	429,561	--
Refinery	5,642	13,680	45,341	2,449	20,535	87,647	--
Tank Farms and Pipelines	1,970	92,960	197,545	21,972	24,611	339,058	--
Cushing, Oklahoma	--	25,790	--	--	--	25,790	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	2,856	2,856	--
SPR	--	--	372,030	--	--	372,030	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	46.4	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	23.3	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	18,987	82,208	34,367	12,459	37,673	185,694	5,990
PAD District of Processing	19,607	77,532	41,776	8,756	38,023	185,694	5,990

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, December 2022
(Thousand Barrels)

PAD District and State	December 2022		January-December 2022	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,902	61	22,649	62
Florida	104	3	1,224	3
New York	23	1	236	1
Pennsylvania	376	12	4,906	13
Virginia	0	0	5	0
West Virginia	1,399	45	16,278	45
PAD District 2	48,320	1,559	606,206	1,661
Illinois	556	18	6,925	19
Indiana	132	4	1,713	5
Kansas	2,266	73	28,346	78
Kentucky	265	9	2,193	6
Michigan	367	12	4,544	12
Missouri	5	0	67	0
Nebraska	121	4	1,593	4
North Dakota	29,399	948	385,985	1,057
Ohio	2,168	70	21,960	60
Oklahoma	12,967	418	151,780	416
South Dakota	63	2	955	3
Tennessee	11	0	148	0
PAD District 3	274,367	8,851	3,107,925	8,515
Alabama	306	10	3,820	10
Arkansas	352	11	4,401	12
Louisiana	2,913	94	36,468	100
Mississippi	1,065	34	12,677	35
New Mexico	54,869	1,770	574,217	1,573
Texas	159,551	5,147	1,840,014	5,041
Federal Offshore PAD District 3	55,311	1,784	636,328	1,743
PAD District 4	26,384	851	315,533	864
Colorado	12,640	408	157,443	431
Idaho	4	0	38	0
Montana	1,810	58	20,558	56
Utah	4,367	141	46,481	127
Wyoming	7,562	244	91,013	249
PAD District 5	24,162	779	284,921	781
Alaska	13,846	447	159,611	437
South Alaska	270	9	3,443	9
North Slope	13,575	438	156,169	428
Arizona	1	0	6	0
California	10,067	325	122,427	335
Nevada	18	1	229	1
Federal Offshore PAD District 5	231	7	2,649	7
U.S. Total	375,136	12,101	4,337,234	11,883

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	9	19,713	19,722	4,611	10,228	14,045	28,884
Natural Gas Liquids	9	19,713	19,722	4,611	10,228	14,045	28,884
Ethane	—	8,386	8,386	1,429	2,655	4,929	9,013
Propane	3	6,674	6,677	2,074	3,922	4,915	10,911
Normal Butane	6	1,975	1,981	448	1,656	1,373	3,477
Isobutane	—	924	924	369	532	1,103	2,004
Natural Gasoline	—	1,754	1,754	291	1,463	1,725	3,479

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	85,373	4,881	4,852	410	10,939	106,455	13,687	2,192	170,940
Natural Gas Liquids	85,373	4,881	4,852	410	10,939	106,455	13,687	2,192	170,940
Ethane	37,703	2,484	1,786	68	4,028	46,069	3,771	1	67,240
Propane	25,932	1,282	1,685	122	3,673	32,694	4,984	239	55,505
Normal Butane	8,685	-3,438	502	54	1,234	7,037	2,047	632	15,174
Isobutane	4,597	4,167	389	44	721	9,918	876	212	13,934
Natural Gasoline	8,456	386	490	122	1,283	10,737	2,009	1,108	19,087

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4	258	262	911	112	567	1,590
Natural Gas Liquids	4	258	262	911	112	567	1,590
Ethane	—	—	—	33	2	125	160
Propane	1	127	128	523	39	175	737
Normal Butane	3	46	49	130	22	94	246
Isobutane	—	14	14	85	5	60	150
Natural Gasoline	—	71	71	140	44	113	297

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	240	277	1,093	5	1	1,616	156	361	3,985
Natural Gas Liquids	240	277	1,093	5	1	1,616	156	361	3,985
Ethane	10	20	—	—	—	30	4	—	194
Propane	75	44	23	3	—	145	65	37	1,112
Normal Butane	26	35	298	1	—	360	27	285	967
Isobutane	92	16	445	—	—	553	14	22	753
Natural Gasoline	37	162	327	1	1	528	46	17	959

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	20,708	2,785	23,493	71,904	15,045	27,366	114,315
Hydrocarbon Gas Liquids	1,880	—	1,880	2,912	96	1,238	4,246
Natural Gas Liquids	1,880	—	1,880	2,912	96	1,238	4,246
Normal Butane	1,385	—	1,385	992	54	535	1,581
Isobutane	121	—	121	1,437	42	517	1,996
Natural Gasoline	374	—	374	483	—	186	669
Other Liquids	80,541	5,548	86,089	5,697	2,596	839	9,132
Hydrogen/Biofuels/Other Hydrocarbons	9,805	740	10,545	5,474	1,382	1,940	8,796
Hydrogen	88	—	88	696	301	219	1,216
Biofuels (including Fuel Ethanol)	9,717	740	10,457	4,764	1,081	1,721	7,566
Fuel Ethanol	9,318	659	9,977	4,641	1,040	1,583	7,264
Biodiesel	399	81	480	123	41	62	226
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	76	76
Other Hydrocarbons	—	—	—	14	—	—	14
Unfinished Oils (net)	1,327	-126	1,201	-1,981	82	275	-1,624
Naphthas and Lighter	-40	-88	-128	266	-18	316	564
Kerosene and Light Gas Oils	69	—	69	-702	-20	19	-703
Heavy Gas Oils	449	-34	415	-1,175	120	-73	-1,128
Residuum	849	-4	845	-370	—	13	-357
Motor Gasoline Blend.Comp. (MGBC)(net)	69,409	4,934	74,343	2,204	1,132	-1,376	1,960
Reformulated - RBOB	15,844	—	15,844	-118	901	789	1,572
Conventional	53,565	4,934	58,499	2,322	231	-2,165	388
CBOB	46,937	4,934	51,871	2,608	350	-2,296	662
GTAB	2,951	—	2,951	—	—	—	—
Other	3,677	0	3,677	-286	-119	131	-274
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	103,129	8,333	111,462	80,513	17,737	29,443	127,693

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,142	130,360	93,248	6,706	2,561	252,017	17,289	67,788	474,902
Hydrocarbon Gas Liquids	829	8,997	4,314	95	111	14,346	627	3,128	24,227
Natural Gas Liquids	829	8,997	4,314	95	111	14,346	627	3,128	24,227
Normal Butane	522	3,268	2,060	63	—	5,913	344	1,441	10,664
Isobutane	272	2,328	1,307	29	111	4,047	156	632	6,952
Natural Gasoline	35	3,401	947	3	—	4,386	127	1,055	6,611
Other Liquids	9,249	-43,178	-28,455	7,013	52	-55,319	699	8,352	48,953
Hydrogen/Biofuels/Other Hydrocarbons	2,186	3,022	2,175	1,043	210	8,636	1,081	6,503	35,561
Hydrogen	101	2,012	1,559	62	54	3,788	154	1,368	6,614
Biofuels (including Fuel Ethanol)	2,085	1,010	616	981	156	4,848	927	5,135	28,933
Fuel Ethanol	2,057	851	478	966	139	4,491	862	4,380	26,974
Biodiesel	28	69	43	15	17	172	30	349	1,257
Renewable Diesel Fuel	—	—	—	—	—	—	—	394	394
Other Biofuels ¹	—	90	95	—	—	185	35	12	308
Other Hydrocarbons	—	—	—	—	—	—	—	—	14
Unfinished Oils (net)	-633	-2,256	6,712	-1	-238	3,584	-278	419	3,302
Naphthas and Lighter	-211	-4,795	673	-6	-24	-4,363	-42	367	-3,602
Kerosene and Light Gas Oils	-177	-274	182	28	-219	-460	-183	-458	-1,735
Heavy Gas Oils	-132	752	4,590	47	5	5,262	-5	492	5,036
Residuum	-113	2,061	1,267	-70	—	3,145	-48	18	3,603
Motor Gasoline Blend.Comp. (MGBC)(net)	7,687	-43,944	-37,347	5,971	80	-67,553	-104	1,430	10,076
Reformulated - RBOB	5,677	-5,701	-1,151	4	-570	-1,741	—	664	16,339
Conventional	2,010	-38,243	-36,196	5,967	650	-65,812	-104	766	-6,263
CBOB	2,035	-33,788	-33,170	5,973	566	-58,384	-104	268	-5,687
GTAB	—	—	—	—	—	—	—	—	2,951
Other	-25	-4,455	-3,026	-6	84	-7,428	0	498	-3,527
Aviation Gasoline Blend. Comp. (net)	9	—	5	—	—	14	—	—	14
Total Input	29,220	96,179	69,107	13,814	2,724	211,044	18,615	79,268	548,082

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	400	-29	371	713	-244	200	669
Natural Gas Liquids	78	-29	49	12	-372	0	-360
Ethane	-	-	-	-	-	-	-
Propane	394	23	417	1,471	237	490	2,198
Normal Butane	-347	-37	-384	-1,242	-570	-447	-2,259
Isobutane	31	-15	16	-217	-39	-43	-299
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	322	-	322	701	128	200	1,029
Ethylene	24	-	24	-	-	-	-
Propylene	285	-	285	705	128	199	1,032
Normal Butylene	-	-	-	-4	-	1	-3
Isobutylene	13	-	13	-	-	-	-
Finished Motor Gasoline	91,341	6,566	97,907	47,230	9,945	15,990	73,165
Reformulated	36,515	54	36,569	8,055	1,350	882	10,287
Reformulated Blended with Fuel Ethanol	36,514	54	36,568	8,055	1,349	882	10,286
Reformulated Other	1	-	1	-	1	-	1
Conventional	54,826	6,512	61,338	39,175	8,595	15,108	62,878
Conventional Blended with Fuel Ethanol	55,543	6,545	62,088	37,688	8,629	13,928	60,245
Ed55 and Lower	55,475	6,545	62,020	37,664	8,583	13,784	60,031
Greater than Ed55	68	-	68	24	46	144	214
Conventional Other	-717	-33	-750	1,487	-34	1,180	2,633
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,635	-	2,635	5,353	830	905	7,088
Kerosene	114	5	119	105	-	74	179
Distillate Fuel Oil	6,496	796	7,292	19,612	5,321	10,912	35,845
15 ppm sulfur and under	6,545	762	7,307	19,604	5,306	10,886	35,796
Greater than 15 ppm to 500 ppm sulfur	-37	-	-37	-	-	95	95
Greater than 500 ppm sulfur	-12	34	22	8	15	-69	-46
Residual Fuel Oil	1,170	12	1,182	758	209	163	1,130
Less than 0.31 percent sulfur	-25	11	-14	78	-	-	78
0.31 to 1.00 percent sulfur	958	1	959	290	128	36	454
Greater than 1.00 percent sulfur	237	-	237	390	81	127	598
Petrochemical Feedstocks	-	-	-	788	-	-	788
Naphtha for Petro. Feed. Use	-	-	-	400	-	-	400
Other Oils for Petro. Feed. Use	-	-	-	388	-	-	388
Special Naphthas	-	1	1	-23	-	11	-12
Lubricants	183	196	379	-	-	151	151
Waxes	-	-17	-17	-	-	28	28
Petroleum Coke	638	18	656	3,535	904	976	5,415
Marketable	224	-	224	2,621	753	725	4,099
Catalyst	414	18	432	914	151	251	1,316
Asphalt and Road Oil	325	679	1,004	3,337	1,238	229	4,804
Still Gas	796	44	840	2,427	624	1,091	4,142
Miscellaneous Products	47	47	94	302	126	59	487
Total	104,145	8,318	112,463	84,137	18,983	30,789	133,909
Processing Gain(-) or Loss(+) ¹	-1,016	15	-1,001	-3,624	-1,246	-1,346	-6,216

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	521	5,053	4,187	-33	-17	9,711	99	-406	10,444
Natural Gas Liquids	151	2,286	2,138	-51	-17	4,507	9	-547	3,658
Ethane	5	125	40	—	—	170	—	—	170
Propane	272	2,396	1,916	17	31	4,632	191	697	8,135
Normal Butane	-168	75	55	-68	-48	-154	-193	-1,283	-4,273
Isobutane	42	-310	127	—	—	-141	11	39	-374
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	370	2,767	2,049	18	—	5,204	90	141	6,786
Ethylene	—	8	—	—	—	8	—	—	32
Propylene	374	3,104	2,104	18	—	5,600	46	146	7,109
Normal Butylene	-4	-345	-55	—	—	-404	44	-5	-368
Isobutylene	—	—	—	—	—	—	—	—	13
Finished Motor Gasoline	20,460	25,411	11,026	9,070	1,428	67,395	10,139	43,035	291,641
Reformulated	7,308	6,878	—	—	—	14,186	—	29,994	91,036
Reformulated Blended with Fuel Ethanol	7,307	6,877	—	—	—	14,184	—	29,994	91,032
Reformulated Other	1	1	—	—	—	2	—	—	4
Conventional	13,152	18,533	11,026	9,070	1,428	53,209	10,139	13,041	200,605
Conventional Blended with Fuel Ethanol	13,123	1,452	4,760	9,500	1,409	30,244	8,521	13,257	174,355
Ed55 and Lower	13,111	1,451	4,760	9,479	1,408	30,209	8,498	13,249	174,007
Greater than Ed55	12	1	—	21	1	35	23	8	348
Conventional Other	29	17,081	6,266	-430	19	22,965	1,618	-216	26,250
Finished Aviation Gasoline	76	138	114	—	—	328	3	50	411
Kerosene-Type Jet Fuel	1,263	12,936	10,029	44	0	24,272	1,057	13,355	48,407
Kerosene	5	516	1	34	—	556	2	5	861
Distillate Fuel Oil	5,685	41,190	36,413	2,413	731	86,432	5,662	15,809	151,040
15 ppm sulfur and under	5,742	40,005	31,646	2,384	731	80,508	5,629	15,131	144,371
Greater than 15 ppm to 500 ppm sulfur	-57	218	2,664	55	—	2,880	30	308	3,276
Greater than 500 ppm sulfur	—	967	2,103	-26	—	3,044	3	370	3,393
Residual Fuel Oil	325	1,738	1,318	4	89	3,474	341	2,302	8,429
Less than 0.31 percent sulfur	263	—	741	—	—	1,004	165	39	1,272
0.31 to 1.00 percent sulfur	-4	747	461	4	—	1,208	21	647	3,289
Greater than 1.00 percent sulfur	66	991	116	—	89	1,262	155	1,616	3,868
Petrochemical Feedstocks	68	2,742	2,221	—	—	5,031	—	—	5,819
Naphtha for Petro. Feed. Use	66	1,703	1,217	—	—	2,986	—	—	3,386
Other Oils for Petro. Feed. Use	2	1,039	1,004	—	—	2,045	—	—	2,433
Special Naphthas	30	459	—	167	—	656	—	24	669
Lubricants	14	1,553	1,418	853	—	3,838	—	332	4,700
Waxes	—	23	54	14	—	91	—	—	102
Petroleum Coke	397	7,385	5,418	163	22	13,385	676	4,082	24,214
Marketable	171	5,751	4,449	149	—	10,520	466	3,184	18,493
Catalyst	226	1,634	969	14	22	2,865	210	898	5,721
Asphalt and Road Oil	153	-7	289	1,048	68	1,551	903	749	9,011
Still Gas	700	5,768	3,621	261	76	10,426	633	3,853	19,894
Miscellaneous Products	99	887	482	17	43	1,528	107	437	2,653
Total	29,796	105,792	76,591	14,055	2,440	228,674	19,622	83,627	578,295
Processing Gain(-) or Loss(+) ¹	-576	-9,613	-7,484	-241	284	-17,630	-1,007	-4,359	-30,213

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	20,708	2,785	23,493	71,904	15,045	27,366	114,315
Hydrocarbon Gas Liquids	378	-	378	2,868	42	659	3,569
Natural Gas Liquids	378	-	378	2,868	42	659	3,569
Normal Butane	257	-	257	949	-	62	1,011
Isobutane	121	-	121	1,436	42	517	1,995
Natural Gasoline	-	-	-	483	-	80	563
Other Liquids	-9,044	-14	-9,058	-37,683	-5,519	-11,802	-55,004
Hydrogen/Biofuels/Other Hydrocarbons	154	128	282	931	471	472	1,874
Hydrogen	88	-	88	696	301	219	1,216
Biofuels (including Fuel Ethanol)	66	128	194	221	170	253	644
Fuel Ethanol	66	109	175	187	157	154	498
Biodiesel	-	19	19	34	13	23	70
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	76	76
Other Hydrocarbons	-	-	-	14	-	-	14
Unfinished Oils (net)	1,327	-126	1,201	-1,982	82	275	-1,625
Naphthas and Lighter	-40	-88	-128	266	-18	316	564
Kerosene and Light Gas Oils	69	-	69	-702	-20	19	-703
Heavy Gas Oils	449	-34	415	-1,176	120	-73	-1,129
Residuum	849	-4	845	-370	-	13	-357
Motor Gasoline Blend.Comp. (MGBC)(net)	-10,525	-16	-10,541	-36,632	-6,072	-12,549	-55,253
Reformulated - RBOB	-6,869	-	-6,869	-7,004	-	-	-7,004
Conventional	-3,656	-16	-3,672	-29,628	-6,072	-12,549	-48,249
CBOB	-2,871	-16	-2,887	-29,342	-5,928	-12,680	-47,950
GTAB	-	-	-	-	-	-	-
Other	-785	0	-785	-286	-144	131	-299
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	12,042	2,771	14,813	37,089	9,568	16,223	62,880
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	713	89	803	2,303	501	882	3,685
Operable Capacity (daily average)	780	98	878	2,721	548	928	4,197
Operable Utilization Rate (percent) ²	91.5	91.0	91.4	84.6	91.4	95.0	87.8
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	116	12	129	422	66	172	660
Catalytic Cracking	232	15	246	643	122	210	975
Catalytic Hydrocracking	41	-	41	159	59	51	268
Delayed and Fluid Coking	33	-	33	301	69	89	459
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.83	1.84	0.95	1.62	1.94	0.62	1.42
API Gravity, Weighted Average (degrees)	36.35	31.43	35.75	33.16	26.63	39.94	33.81
Operable Capacity (daily average)	780	98	878	2,721	548	928	4,197
Operating	780	98	878	2,570	510	928	4,008
Idle	-	-	-	151	38	-	189
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,142	130,360	93,248	6,706	2,561	252,017	17,289	67,788	474,902
Hydrocarbon Gas Liquids	786	5,635	3,972	67	111	10,571	535	3,081	18,134
Natural Gas Liquids	786	5,635	3,972	67	111	10,571	535	3,081	18,134
Normal Butane	484	2,556	1,718	35	—	4,793	263	1,394	7,718
Isobutane	272	2,328	1,307	29	111	4,047	155	632	6,950
Natural Gasoline	30	751	947	3	—	1,731	117	1,055	3,466
Other Liquids	-9,010	-50,438	-31,027	-1,519	-1,245	-93,239	-4,871	-32,339	-194,511
Hydrogen/Biofuels/Other Hydrocarbons	300	2,164	1,884	103	64	4,515	453	1,816	8,940
Hydrogen	101	2,012	1,559	62	54	3,788	154	1,368	6,614
Biofuels (including Fuel Ethanol)	199	152	325	41	10	727	299	448	2,312
Fuel Ethanol	185	43	187	40	6	461	251	131	1,516
Biodiesel	14	19	43	1	4	81	13	10	193
Renewable Diesel Fuel	—	—	—	—	—	—	—	295	295
Other Biofuels ¹	—	90	95	—	—	185	35	12	308
Other Hydrocarbons	—	—	—	—	—	—	—	—	14
Unfinished Oils (net)	-633	-2,256	6,712	-1	-238	3,584	-278	419	3,301
Naphthas and Lighter	-211	-4,795	673	-6	-24	-4,363	-42	367	-3,602
Kerosene and Light Gas Oils	-177	-274	182	28	-219	-460	-183	-458	-1,735
Heavy Gas Oils	-132	752	4,590	47	5	5,262	-5	492	5,035
Residuum	-113	2,061	1,267	-70	—	3,145	-48	18	3,603
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,686	-50,346	-39,628	-1,621	-1,071	-101,352	-5,046	-34,574	-206,766
Reformulated - RBOB	-954	-11,651	-1,151	—	-570	-14,326	—	-25,748	-53,947
Conventional	-7,732	-38,695	-38,477	-1,621	-501	-87,026	-5,046	-8,826	-152,819
CBOB	-7,707	-31,135	-34,684	-1,615	-555	-75,696	-5,045	-9,344	-140,922
GTAB	—	—	—	—	—	—	—	—	—
Other	-25	-7,560	-3,793	-6	54	-11,330	-1	518	-11,897
Aviation Gasoline Blend. Comp. (net)	9	—	5	—	—	14	—	—	14
Total Input to Refineries	10,918	85,557	66,193	5,254	1,427	169,349	12,953	38,530	298,525
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	626	4,357	3,179	191	83	8,435	549	2,371	15,843
Operable Capacity (daily average)	746	5,224	3,288	260	110	9,628	650	2,651	18,004
Operable Utilization Rate (percent) ²	83.9	83.4	96.7	73.6	75.1	87.6	84.5	89.4	88.0
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	131	692	554	31	15	1,424	90	373	2,675
Catalytic Cracking	150	1,173	751	15	24	2,113	156	589	4,079
Catalytic Hydrocracking	46	478	433	19	8	983	16	434	1,743
Delayed and Fluid Coking	17	669	499	29	—	1,215	50	409	2,166
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.52	1.41	0.98	1.35	1.00	1.16	1.31	1.39	1.25
API Gravity, Weighted Average (degrees)	40.12	34.01	32.56	32.38	38.73	34.12	33.40	28.50	33.27
Operable Capacity (daily average)	746	5,224	3,288	260	110	9,628	650	2,651	18,004
Operating	746	5,224	3,288	260	110	9,628	641	2,645	17,799
Idle	—	—	—	—	—	—	10	6	204
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	13,532	13,532

— = Not Applicable.

— = No Data Reported.

NA = Not Available.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	400	-29	371	713	-244	200	669
Natural Gas Liquids	78	-29	49	12	-372	0	-360
Ethane	-	-	-	-	-	-	-
Propane	394	23	417	1,471	237	490	2,198
Normal Butane	-347	-37	-384	-1,242	-570	-447	-2,259
Isobutane	31	-15	16	-217	-39	-43	-299
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	322	-	322	701	128	200	1,029
Ethylene	24	-	24	-	-	-	-
Propylene	285	-	285	705	128	199	1,032
Normal Butylene	-	-	-	-4	-	1	-3
Isobutylene	13	-	13	-	-	-	-
Finished Motor Gasoline	652	1,062	1,714	3,880	1,803	2,810	8,493
Reformulated	652	-	652	-	-	5	5
Reformulated Blended with Fuel Ethanol	652	-	652	-	-	5	5
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,062	1,062	3,880	1,803	2,805	8,488
Conventional Blended with Fuel Ethanol	-	1,086	1,086	1,906	1,494	1,541	4,941
Ed55 and Lower	-	1,086	1,086	1,906	1,494	1,541	4,941
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	-24	-24	1,974	309	1,264	3,547
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,634	-	2,634	5,361	847	905	7,113
Kerosene	127	5	132	105	-	74	179
Distillate Fuel Oil	6,060	738	6,798	19,532	5,277	10,874	35,683
15 ppm sulfur and under	6,110	704	6,814	19,524	5,262	10,848	35,634
Greater than 15 ppm to 500 ppm sulfur	-63	-	-63	-	-	-6	-6
Greater than 500 ppm sulfur	13	34	47	8	15	32	55
Residual Fuel Oil	1,207	12	1,219	758	209	163	1,130
Less than 0.31 percent sulfur	-	11	11	78	-	-	78
0.31 to 1.00 percent sulfur	958	1	959	290	128	36	454
Greater than 1.00 percent sulfur	249	-	249	390	81	127	598
Petrochemical Feedstocks	-	-	-	788	-	-	788
Naphtha for Petro. Feed. Use	-	-	-	400	-	-	400
Other Oils for Petro. Feed. Use	-	-	-	388	-	-	388
Special Naphthas	-	1	1	-23	-	11	-12
Lubricants	183	196	379	-	-	151	151
Waxes	-	-17	-17	-	-	28	28
Petroleum Coke	638	18	656	3,535	904	976	5,415
Marketable	224	-	224	2,621	753	725	4,099
Catalyst	414	18	432	914	151	251	1,316
Asphalt and Road Oil	313	679	992	3,336	1,238	229	4,803
Still Gas	796	44	840	2,427	624	1,091	4,142
Miscellaneous Products	47	47	94	302	126	59	487
Total	13,057	2,756	15,813	40,714	10,814	17,571	69,099
Processing Gain(-) or Loss(+) ¹	-1,015	15	-1,000	-3,625	-1,246	-1,348	-6,219

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	521	5,053	4,187	-33	-17	9,711	99	-406	10,444
Natural Gas Liquids	151	2,286	2,138	-51	-17	4,507	9	-547	3,658
Ethane	5	125	40	—	—	170	—	—	170
Propane	272	2,396	1,916	17	31	4,632	191	697	8,135
Normal Butane	-168	75	55	-68	-48	-154	-193	-1,283	-4,273
Isobutane	42	-310	127	—	—	-141	11	39	-374
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	370	2,767	2,049	18	—	5,204	90	141	6,786
Ethylene	—	8	—	—	—	8	—	—	32
Propylene	374	3,104	2,104	18	—	5,600	46	146	7,109
Normal Butylene	-4	-345	-55	—	—	-404	44	-5	-368
Isobutylene	—	—	—	—	—	—	—	—	13
Finished Motor Gasoline	2,171	14,838	8,111	524	140	25,784	4,498	2,724	43,213
Reformulated	—	—	—	—	—	—	—	619	1,276
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	619	1,276
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,171	14,838	8,111	524	140	25,784	4,498	2,105	41,937
Conventional Blended with Fuel Ethanol	1,910	430	1,856	427	60	4,683	2,552	675	13,937
Ed55 and Lower	1,910	430	1,856	427	60	4,683	2,552	675	13,937
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	261	14,408	6,255	97	80	21,101	1,946	1,430	28,000
Finished Aviation Gasoline	76	138	114	—	—	328	3	50	411
Kerosene-Type Jet Fuel	1,263	12,901	10,022	44	—	24,230	989	13,359	48,325
Kerosene	5	551	0	34	—	590	2	4	907
Distillate Fuel Oil	5,671	41,140	36,421	2,401	722	86,355	5,709	15,381	149,926
15 ppm sulfur and under	5,728	39,955	31,654	2,372	722	80,431	5,676	14,713	143,268
Greater than 15 ppm to 500 ppm sulfur	-57	218	2,664	55	—	2,880	30	308	3,149
Greater than 500 ppm sulfur	—	967	2,103	-26	—	3,044	3	360	3,509
Residual Fuel Oil	325	1,738	1,301	4	89	3,457	341	2,302	8,449
Less than 0.31 percent sulfur	263	—	741	—	—	1,004	165	39	1,297
0.31 to 1.00 percent sulfur	-4	747	461	4	—	1,208	21	648	3,290
Greater than 1.00 percent sulfur	66	991	99	—	89	1,245	155	1,615	3,862
Petrochemical Feedstocks	68	2,742	2,221	—	—	5,031	—	—	5,819
Naphtha for Petro. Feed. Use	66	1,703	1,217	—	—	2,986	—	—	3,386
Other Oils for Petro. Feed. Use	2	1,039	1,004	—	—	2,045	—	—	2,433
Special Naphthas	30	459	—	167	—	656	—	24	669
Lubricants	14	1,553	1,418	853	—	3,838	—	332	4,700
Waxes	—	23	54	14	—	91	—	—	102
Petroleum Coke	397	7,385	5,418	163	22	13,385	676	4,082	24,214
Marketable	171	5,751	4,449	149	—	10,520	466	3,184	18,493
Catalyst	226	1,634	969	14	22	2,865	210	898	5,721
Asphalt and Road Oil	153	-7	306	1,048	68	1,568	903	749	9,015
Still Gas	700	5,768	3,621	261	76	10,426	633	3,853	19,894
Miscellaneous Products	99	887	482	17	43	1,528	107	437	2,653
Total	11,493	95,169	73,676	5,497	1,143	186,978	13,960	42,891	328,741
Processing Gain(-) or Loss(+) ¹	-575	-9,612	-7,483	-243	284	-17,629	-1,007	-4,361	-30,216

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,502	—	1,502	44	54	579	677
Natural Gas Liquids	1,502	—	1,502	44	54	579	677
Normal Butane	1,128	—	1,128	43	54	473	570
Isobutane	—	—	—	1	—	—	1
Natural Gasoline	374	—	374	—	—	106	106
Other Liquids	89,585	5,562	95,147	43,380	8,115	12,641	64,136
Oxygenates/Renewables	9,651	612	10,263	4,543	911	1,468	6,922
Biofuels (including Fuel Ethanol)	9,651	612	10,263	4,543	911	1,468	6,922
Fuel Ethanol	9,252	550	9,802	4,454	883	1,429	6,766
Biodiesel	399	62	461	89	28	39	156
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	1	—	—	1
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	1	—	—	1
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	79,934	4,950	84,884	38,836	7,204	11,173	57,213
Reformulated - RBOB	22,713	—	22,713	6,886	901	789	8,576
Conventional	57,221	4,950	62,171	31,950	6,303	10,384	48,637
CBOB	49,808	4,950	54,758	31,950	6,278	10,384	48,612
GTAB	2,951	—	2,951	—	—	—	—
Other	4,462	—	4,462	—	25	—	25
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	91,087	5,562	96,649	43,424	8,169	13,220	64,813

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	43	3,362	342	28	—	3,775	92	47	6,093
Natural Gas Liquids	43	3,362	342	28	—	3,775	92	47	6,093
Normal Butane	38	712	342	28	—	1,120	81	47	2,946
Isobutane	—	—	—	—	—	—	1	—	2
Natural Gasoline	5	2,650	—	—	—	2,655	10	—	3,145
Other Liquids	18,259	7,260	2,572	8,532	1,297	37,920	5,570	40,691	243,464
Oxygenates/Renewables	1,886	858	291	940	146	4,121	628	4,687	26,621
Biofuels (including Fuel Ethanol)	1,886	858	291	940	146	4,121	628	4,687	26,621
Fuel Ethanol	1,872	808	291	926	133	4,030	611	4,249	25,458
Biodiesel	14	50	—	14	13	91	17	339	1,064
Renewable Diesel Fuel	—	—	—	—	—	—	—	99	99
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	—	—	—	—	—	1
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—	—	1
Residuum	—	—	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	16,373	6,402	2,281	7,592	1,151	33,799	4,942	36,004	216,842
Reformulated - RBOB	6,631	5,950	—	4	—	12,585	—	26,412	70,286
Conventional	9,742	452	2,281	7,588	1,151	21,214	4,942	9,592	146,556
CBOB	9,742	-2,653	1,514	7,588	1,121	17,312	4,941	9,612	135,235
GTAB	—	—	—	—	—	—	—	—	2,951
Other	—	3,105	767	—	30	3,902	1	-20	8,370
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	18,302	10,622	2,914	8,560	1,297	41,695	5,662	40,738	249,557

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	90,689	5,504	96,193	43,350	8,142	13,180	64,672
Reformulated	35,863	54	35,917	8,055	1,350	877	10,282
Reformulated Blended with Fuel Ethanol	35,862	54	35,916	8,055	1,349	877	10,281
Reformulated Other	1	—	1	—	1	—	1
Conventional	54,826	5,450	60,276	35,295	6,792	12,303	54,390
Conventional Blended with Fuel Ethanol	55,543	5,459	61,002	35,782	7,135	12,387	55,304
Ed55 and Lower	55,475	5,459	60,934	35,758	7,089	12,243	55,090
Greater than Ed55	68	—	68	24	46	144	214
Conventional Other	-717	-9	-726	-487	-343	-84	-914
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	1	—	1	-8	-17	0	-25
Kerosene	-13	—	-13	—	—	—	—
Distillate Fuel Oil	436	58	494	80	44	38	162
15 ppm sulfur and under	435	58	493	80	44	38	162
Greater than 15 ppm to 500 ppm sulfur	26	—	26	—	—	101	101
Greater than 500 ppm sulfur	-25	—	-25	—	—	-101	-101
Residual Fuel Oil	-37	—	-37	—	—	—	—
Less than 0.31 percent sulfur	-25	—	-25	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	-12	—	-12	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—
Asphalt and Road Oil	12	—	12	1	—	—	1
Miscellaneous Products	—	—	—	—	—	—	—
Total Production	91,088	5,562	96,650	43,423	8,169	13,218	64,810
Processing Gain(-) or Loss(+) ¹	-1	0	-1	1	0	2	3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,289	10,573	2,915	8,546	1,288	41,611	5,641	40,311	248,428
Reformulated	7,308	6,878	—	—	—	14,186	—	29,375	89,760
Reformulated Blended with Fuel Ethanol	7,307	6,877	—	—	—	14,184	—	29,375	89,756
Reformulated Other	1	1	—	—	—	2	—	—	4
Conventional	10,981	3,695	2,915	8,546	1,288	27,425	5,641	10,936	158,668
Conventional Blended with Fuel Ethanol	11,213	1,022	2,904	9,073	1,349	25,561	5,969	12,582	160,418
Ed55 and Lower	11,201	1,021	2,904	9,052	1,348	25,526	5,946	12,574	160,070
Greater than Ed55	12	1	—	21	1	35	23	8	348
Conventional Other	-232	2,673	11	-527	-61	1,864	-328	-1,646	-1,750
Finished Aviation Gasoline	—	—	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	35	7	—	0	42	68	-4	82
Kerosene	—	-35	1	—	—	-34	—	1	-46
Distillate Fuel Oil	14	50	-8	12	9	77	-47	428	1,114
15 ppm sulfur and under	14	50	-8	12	9	77	-47	418	1,103
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	127
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	10	-116
Residual Fuel Oil	—	—	17	—	—	17	—	0	-20
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	-25
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	-1	-1
Greater than 1.00 percent sulfur	—	—	17	—	—	17	—	1	6
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	-17	—	—	-17	—	—	-4
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total Production	18,303	10,623	2,915	8,558	1,297	41,696	5,662	40,736	249,554
Processing Gain(-) or Loss(+) ¹	-1	-1	-1	2	0	-1	0	2	3

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	4,886	756	5,642	9,555	2,260	1,865	13,680
Petroleum Products	9,613	2,130	11,743	28,118	7,511	11,246	46,875
Hydrocarbon Gas Liquids	576	42	618	2,145	399	1,345	3,889
Natural Gas Liquids	423	42	465	1,808	370	1,328	3,506
Ethane	—	—	—	—	—	—	—
Propane	103	2	105	483	48	724	1,255
Normal Butane	252	26	278	938	284	148	1,370
Isobutane	68	14	82	233	38	223	494
Natural Gasoline	—	—	—	154	—	233	387
Refinery Olefins	153	0	153	337	29	17	383
Ethylene	—	—	—	—	—	—	—
Propylene	137	0	137	336	29	7	372
Normal Butylene	0	0	0	1	0	10	11
Isobutylene	16	0	16	0	0	0	0
Biofuels/Other Hydrocarbons	101	87	188	40	56	27	123
Biofuels (including Fuel Ethanol)	101	87	188	30	56	27	113
Fuel Ethanol	101	78	179	24	47	23	94
Biodiesel	—	9	9	6	9	4	19
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	10	—	—	10
Unfinished Oils	3,092	341	3,433	8,538	714	3,936	13,188
Naphthas and Lighter	665	190	855	1,740	154	1,041	2,935
Kerosene and Light Gas Oils	431	—	431	2,117	341	348	2,806
Heavy Gas Oils	1,400	144	1,544	3,279	219	1,756	5,254
Residuum	596	7	603	1,402	—	791	2,193
Motor Gasoline Blending Components (MGBC)	2,992	242	3,234	7,690	1,935	2,954	12,579
Reformulated - RBOB	1,281	—	1,281	777	—	—	777
Conventional	1,711	242	1,953	6,913	1,935	2,954	11,802
CBOB	43	186	229	2,824	1,072	2,033	5,929
G TAB	—	—	—	—	—	—	—
Other	1,668	56	1,724	4,089	863	921	5,873
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	19	19	258	82	150	490
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	19	19	258	82	150	490
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	19	19	258	82	150	490
Finished Aviation Gasoline	—	—	—	—	62	—	62
Kerosene-Type Jet Fuel	508	—	508	1,190	216	225	1,631
Kerosene	78	6	84	62	—	32	94
Distillate Fuel Oil	1,101	279	1,380	3,153	909	1,706	5,768
15 ppm sulfur and under	867	171	1,038	3,031	783	1,492	5,306
Greater than 15 ppm to 500 ppm sulfur	35	91	126	—	—	103	103
Greater than 500 ppm sulfur	199	17	216	122	126	111	359
Residual Fuel Oil	347	20	367	779	204	82	1,065
Less than 0.31 percent sulfur	—	18	18	216	—	—	216
0.31 to 1.00 percent sulfur	100	2	102	140	75	27	242
Greater than 1.00 percent sulfur	247	—	247	423	129	55	607
Petrochemical Feedstocks	—	—	—	528	—	—	528
Naphtha for Petro. Feed. Use	—	—	—	393	—	—	393
Other Oils for Petro. Feed. Use	—	—	—	135	—	—	135
Special Naphthas	—	34	34	65	—	10	75
Lubricants	665	305	970	—	—	227	227
Waxes	—	221	221	—	—	47	47
Petroleum Coke	—	—	—	864	1,530	225	2,619
Marketable	—	—	—	864	1,530	225	2,619
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	137	484	621	2,718	1,370	270	4,358
Miscellaneous Products	16	50	66	88	34	10	132
Total Stocks, All Oils	14,499	2,886	17,385	37,673	9,771	13,111	60,555

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,907	27,699	14,311	1,154	270	45,341	2,449	20,535	87,647
Petroleum Products	10,602	56,970	41,556	3,883	1,129	114,140	10,451	49,634	232,843
Hydrocarbon Gas Liquids	2,888	1,918	1,352	13	59	6,230	408	1,329	12,474
Natural Gas Liquids	2,167	1,558	1,192	12	59	4,988	330	1,312	10,601
Ethane	17	1	—	—	—	18	—	—	18
Propane	450	400	72	3	3	928	41	130	2,459
Normal Butane	1,397	897	485	6	55	2,840	210	898	5,596
Isobutane	240	209	342	3	1	795	74	282	1,727
Natural Gasoline	63	51	293	—	—	407	5	2	801
Refinery Olefins	721	360	160	1	0	1,242	78	17	1,873
Ethylene	0	0	—	—	—	0	—	—	0
Propylene	704	45	56	0	0	805	10	14	1,338
Normal Butylene	17	315	104	1	0	437	68	3	519
Isobutylene	0	0	0	0	0	0	0	0	16
Biofuels/Other Hydrocarbons	48	1,075	142	27	8	1,300	104	1,277	2,992
Biofuels (including Fuel Ethanol)	48	1,075	142	27	8	1,300	104	1,277	2,982
Fuel Ethanol	30	1,055	96	20	4	1,205	94	173	1,745
Biodiesel	18	20	46	7	4	95	10	7	140
Renewable Diesel Fuel	—	—	—	—	—	—	—	1,097	1,097
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	10
Unfinished Oils	2,802	23,743	13,620	1,114	574	41,853	2,995	17,570	79,039
Naphthas and Lighter	1,201	6,475	1,644	256	152	9,728	640	2,517	16,675
Kerosene and Light Gas Oils	541	3,759	1,621	187	247	6,355	709	3,024	13,325
Heavy Gas Oils	605	10,440	7,694	557	175	19,471	943	8,907	36,119
Residuum	455	3,069	2,661	114	—	6,299	703	3,122	12,920
Motor Gasoline Blending Components (MGBC)	2,645	11,195	10,706	208	177	24,931	3,041	13,938	57,723
Reformulated - RBOB	159	832	161	—	6	1,158	—	5,443	8,659
Conventional	2,486	10,363	10,545	208	171	23,773	3,041	8,495	49,064
CBOB	1,327	3,297	5,645	143	23	10,435	1,685	2,428	20,706
GTAB	—	—	—	—	—	—	—	—	—
Other	1,159	7,066	4,900	65	148	13,338	1,356	6,067	28,358
Aviation Gasoline Blending Components	20	—	13	—	—	33	—	—	33
Finished Motor Gasoline	77	1,979	1,458	38	6	3,558	778	743	5,588
Reformulated	—	—	—	—	—	—	—	15	15
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	15	15
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	77	1,979	1,458	38	6	3,558	778	728	5,573
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	58	—	58
Ed55 and Lower	—	—	—	—	—	—	58	—	58
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	77	1,979	1,458	38	6	3,558	720	728	5,515
Finished Aviation Gasoline	48	199	147	—	—	394	9	205	670
Kerosene-Type Jet Fuel	262	2,041	1,816	29	—	4,148	372	3,506	10,165
Kerosene	28	22	1	3	—	54	2	2	236
Distillate Fuel Oil	866	6,119	5,354	335	15	12,689	1,650	5,346	26,833
15 ppm sulfur and under	849	4,973	4,303	209	15	10,349	1,509	4,779	22,981
Greater than 15 ppm to 500 ppm sulfur	17	115	372	30	—	534	93	199	1,055
Greater than 500 ppm sulfur	—	1,031	679	96	—	1,806	48	368	2,797
Residual Fuel Oil	219	2,455	1,889	12	113	4,688	210	2,610	8,940
Less than 0.31 percent sulfur	24	—	36	—	—	60	26	36	356
0.31 to 1.00 percent sulfur	61	599	298	12	—	970	4	430	1,748
Greater than 1.00 percent sulfur	134	1,856	1,555	—	113	3,658	180	2,144	6,836
Petrochemical Feedstocks	57	1,295	504	4	—	1,860	—	—	2,388
Naphtha for Petro. Feed. Use	55	865	466	4	—	1,390	—	—	1,783
Other Oils for Petro. Feed. Use	2	430	38	—	—	470	—	—	605
Special Naphthas	73	499	—	183	—	755	—	32	896
Lubricants	45	2,331	2,617	921	—	5,914	—	794	7,905
Waxes	—	107	129	97	—	333	—	—	601
Petroleum Coke	40	1,570	1,284	—	—	2,894	97	1,264	6,874
Marketable	40	1,570	1,284	—	—	2,894	97	1,264	6,874
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	316	179	412	898	150	1,955	769	940	8,643
Miscellaneous Products	168	243	112	1	27	551	16	78	843
Total Stocks, All Oils	12,509	84,669	55,867	5,037	1,399	159,481	12,900	70,169	320,490

-- = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, December 2022

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1.8	-1.1	1.5	1.0	-1.6	0.7	0.6
Finished Motor Gasoline ¹	48.5	36.4	47.2	53.0	49.8	52.2	52.4
Finished Aviation Gasoline ²	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel	11.9	—	10.6	7.6	5.5	3.3	6.2
Kerosene	0.6	0.2	0.5	0.2	—	0.3	0.2
Distillate Fuel Oil ³	27.4	27.0	27.4	27.6	34.1	38.7	31.2
Residual Fuel Oil	5.5	0.5	4.9	1.1	1.4	0.6	1.0
Naphtha for Petro. Feed. Use	—	—	—	0.6	—	—	0.4
Other Oils for Petro. Feed. Use	—	—	—	0.6	—	—	0.3
Special Naphthas	—	0.0	0.0	0.0	—	0.0	0.0
Lubricants	0.8	7.4	1.5	—	—	0.5	0.1
Waxes	—	-0.6	-0.1	—	—	0.1	0.0
Petroleum Coke	2.9	0.7	2.7	5.0	5.9	3.5	4.8
Asphalt and Road Oil	1.4	25.5	4.0	4.7	8.0	0.8	4.2
Still Gas	3.6	1.7	3.4	3.4	4.0	3.9	3.6
Miscellaneous Products	0.2	1.8	0.4	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.6	0.6	-4.0	-5.1	-8.1	-4.8	-5.5

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	2.8	3.9	4.1	-0.5	-0.7	3.7	0.6	-0.6	2.2
Finished Motor Gasoline ¹	53.1	45.7	42.9	30.1	46.0	44.8	51.0	49.0	47.5
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	6.8	9.9	9.9	0.7	—	9.3	5.8	19.2	10.0
Kerosene	0.0	0.4	0.0	0.5	—	0.2	0.0	0.0	0.2
Distillate Fuel Oil ³	30.4	31.5	35.7	35.5	30.2	33.2	33.0	21.7	30.8
Residual Fuel Oil	1.8	1.3	1.3	0.1	3.7	1.3	2.0	3.3	1.7
Naphtha for Petro. Feed. Use	0.4	1.3	1.2	—	—	1.2	—	—	0.7
Other Oils for Petro. Feed. Use	0.0	0.8	1.0	—	—	0.8	—	—	0.5
Special Naphthas	0.2	0.4	—	2.5	—	0.3	—	0.0	0.1
Lubricants	0.1	1.2	1.4	12.6	—	1.5	—	0.5	1.0
Waxes	—	0.0	0.1	0.2	—	0.0	—	—	0.0
Petroleum Coke	2.1	5.7	5.3	2.4	0.9	5.2	3.9	5.9	5.0
Asphalt and Road Oil	0.8	0.0	0.3	15.5	2.9	0.6	5.3	1.1	1.9
Still Gas	3.8	4.4	3.6	3.9	3.2	4.0	3.7	5.5	4.1
Miscellaneous Products	0.5	0.7	0.5	0.3	1.8	0.6	0.6	0.6	0.6
Processing Gain(-) or Loss(+) ⁴	-3.1	-7.4	-7.4	-3.6	12.0	-6.8	-5.9	-6.3	-6.2

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas liquids, fuel ethanol, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, renewable diesel fuel, and other biofuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, December 2022
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil		
	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	689	1,192	1,881
Connecticut	—	—	—
Delaware	331	—	331
Florida	—	682	682
Georgia	86	92	178
Maine	—	—	—
Maryland	—	—	—
Massachusetts	—	—	—
New Hampshire	—	—	—
New Jersey	272	418	690
New York	—	—	—
North Carolina	—	—	—
Pennsylvania	—	—	—
Rhode Island	—	—	—
South Carolina	—	—	—
Vermont	—	—	—
Virginia	—	—	—
West Virginia	—	—	—
PAD District 2	4	74	78
Illinois	—	—	—
Indiana	—	—	—
Michigan	—	37	37
Minnesota	2	—	2
North Dakota	2	37	39
Ohio	—	—	—
Wisconsin	—	—	—
PAD District 3	—	3,622	3,622
Alabama	—	—	—
Louisiana	—	—	—
Mississippi	—	1,223	1,223
New Mexico	—	—	—
Texas	—	2,399	2,399
PAD District 4	—	—	—
Idaho	—	—	—
Montana	—	—	—
PAD District 5	38	74	112
Alaska	—	—	—
California	—	74	74
Hawaii	—	—	—
Oregon	—	—	—
Washington	38	—	38
U.S. Total	731	4,962	5,693

— = No Data Reported.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, December 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	19,607	77,532	41,776	8,756	38,023	185,694	5,990
Hydrocarbon Gas Liquids	1,344	2,106	—	927	1,610	5,987	193
Natural Gas Liquids	1,062	1,902	—	927	1,610	5,501	177
Ethane	—	—	—	—	—	—	—
Propane	1,020	1,235	—	891	1,081	4,227	136
Normal Butane	38	467	—	36	529	1,070	35
Isobutane	4	199	—	—	—	203	7
Natural Gasoline	—	1	—	—	—	1	0
Refinery Olefins	282	204	—	—	—	486	16
Ethylene	—	—	—	—	—	—	—
Propylene	282	139	—	—	—	421	14
Normal Butylene	—	65	—	—	—	65	2
Isobutylene	—	—	—	—	—	—	—
Other Liquids	16,728	754	11,670	43	3,240	32,435	1,046
Hydrogen/Biofuels/Other Hydrocarbons	390	98	229	10	850	1,577	51
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	390	98	225	10	850	1,573	51
Fuel Ethanol	—	—	—	—	—	—	—
Biodiesel	390	98	173	10	180	851	27
Renewable Diesel Fuel	—	—	—	—	670	670	22
Other Biofuels ³	—	—	52	—	—	52	2
Other Hydrocarbons	—	—	4	—	—	4	0
Unfinished Oils ¹	961	—	11,314	—	1,761	14,036	453
Naphthas and Lighter	344	—	—	—	—	344	11
Kerosene and Lighter Gas Oils	—	—	11	—	—	11	0
Heavy Gas Oils	617	—	6,289	—	1,761	8,667	280
Residuum	—	—	5,014	—	—	5,014	162
Motor Gasoline Blend.Comp. (MGBC)	15,377	656	127	33	629	16,822	543
Reformulated - RBOB	5,553	—	—	—	—	5,553	179
Conventional	9,824	656	127	33	629	11,269	364
CBOB	2,079	300	—	—	179	2,558	83
GTAB	2,209	—	—	—	300	2,509	81
Other	5,536	356	127	33	150	6,202	200
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	13,462	1,292	5,727	137	3,352	23,970	773
Finished Motor Gasoline	2,556	—	—	—	491	3,047	98
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,556	—	—	—	491	3,047	98
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,556	—	—	—	491	3,047	98
Finished Aviation Gasoline	113	2	—	1	2	118	4
Kerosene-Type Jet Fuel	1,224	—	123	—	2,417	3,764	121
Bonded Aircraft Fuel	219	—	—	—	378	597	19
Other	1,005	—	123	—	2,039	3,167	102
Kerosene	100	—	—	—	—	100	3
Distillate Fuel Oil	5,917	378	57	28	171	6,551	211
15 ppm sulfur and under	5,817	373	57	28	171	6,446	208
Bonded	—	—	—	—	—	—	—
Other	5,817	373	57	28	171	6,446	208
Greater than 15 ppm to 500 ppm sulfur	100	3	—	—	—	103	3
Bonded	—	—	—	—	—	—	—
Other	100	3	—	—	—	103	3
Greater than 500 ppm to 2000 ppm sulfur	—	2	—	—	—	2	0
Bonded	—	—	—	—	—	—	—
Other	—	2	—	—	—	2	0
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	1,881	78	3,622	—	112	5,693	184
Less than 0.31 percent sulfur	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	689	4	—	—	38	731	24
Greater than 1.00 percent sulfur	1,192	74	3,622	—	74	4,962	160
Petrochemical Feedstocks	585	148	85	—	—	818	26
Naphtha for Petro. Feed. Use	584	83	24	—	—	691	22
Other Oils for Petro. Feed. Use	1	65	61	—	—	127	4
Special Naphthas	1	4	312	3	23	343	11
Lubricants	132	196	1,228	—	59	1,615	52
Waxes	34	—	44	—	13	91	3
Petroleum Coke (Marketable)	—	18	256	—	—	274	9
Asphalt and Road Oil	919	468	—	105	64	1,556	50
Miscellaneous Products	—	—	—	—	—	—	—
Total	51,141	81,684	59,173	9,863	46,225	248,086	8,003

-- = Not Applicable.

— = No Data Reported.

1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-December 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	224,776	952,866	571,542	103,225	439,019	2,291,428	6,278
Hydrocarbon Gas Liquids	14,588	27,077	99	4,970	16,623	63,357	174
Natural Gas Liquids	11,470	24,697	48	4,970	16,623	57,808	158
Ethane	—	—	—	—	—	—	—
Propane	10,772	16,364	16	4,685	9,834	41,671	114
Normal Butane	496	5,944	30	262	6,673	13,405	37
Isobutane	202	2,339	—	22	116	2,679	7
Natural Gasoline	—	50	2	1	—	53	0
Refinery Olefins	3,118	2,380	51	—	—	5,549	15
Ethylene	—	—	—	—	—	—	—
Propylene	3,118	1,494	—	—	—	4,612	13
Normal Butylene	—	886	51	—	—	937	3
Isobutylene	—	—	—	—	—	—	—
Other Liquids	179,248	6,329	169,541	1,022	43,173	399,313	1,094
Hydrogen/Biofuels/Other Hydrocarbons	3,100	1,060	1,241	112	8,530	14,043	38
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	3,100	1,060	1,161	112	8,530	13,963	38
Fuel Ethanol	444	—	—	7	1,194	1,645	5
Biodiesel	2,656	1,060	1,059	105	1,070	5,950	16
Renewable Diesel Fuel	—	—	—	—	6,254	6,254	17
Other Biofuels ³	—	—	102	—	12	114	0
Other Hydrocarbons	—	—	80	—	—	80	0
Unfinished Oils ¹	13,891	—	152,187	345	22,243	188,666	517
Naphthas and Lighter	4,230	—	90	—	199	4,519	12
Kerosene and Lighter Gas Oils	—	—	168	46	—	214	1
Heavy Gas Oils	9,661	—	80,137	299	21,842	111,939	307
Residuum	—	—	71,792	—	202	71,994	197
Motor Gasoline Blend.Comp. (MGBC)	162,257	5,269	16,113	565	12,400	196,604	539
Reformulated - RBOB	55,558	—	417	—	1,615	57,590	158
Conventional	106,699	5,269	15,696	565	10,785	139,014	381
CBOB	16,311	1,605	—	—	1,057	18,973	52
GTAB	28,693	—	341	—	300	29,334	80
Other	61,695	3,664	15,355	565	9,428	90,707	249
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	134,919	15,673	74,554	2,926	53,719	281,791	772
Finished Motor Gasoline	27,657	—	179	20	8,704	36,560	100
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	27,657	—	179	20	8,704	36,560	100
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	27,657	—	179	20	8,704	36,560	100
Finished Aviation Gasoline	256	48	98	6	24	432	1
Kerosene-Type Jet Fuel	11,499	34	124	311	31,795	43,763	120
Bonded Aircraft Fuel	1,423	—	—	—	5,817	7,240	20
Other	10,076	34	124	311	25,978	36,523	100
Kerosene	100	—	—	—	18	118	0
Distillate Fuel Oil	55,188	3,534	328	1,624	7,943	68,617	188
15 ppm sulfur and under	54,952	3,343	193	1,621	6,492	66,601	182
Bonded	1	50	—	—	—	51	0
Other	54,951	3,293	193	1,621	6,492	66,550	182
Greater than 15 ppm to 500 ppm sulfur	174	55	25	—	1,260	1,514	4
Bonded	—	—	—	—	—	—	—
Other	174	55	25	—	1,260	1,514	4
Greater than 500 ppm to 2000 ppm sulfur	62	136	110	3	1	312	1
Bonded	—	—	—	—	—	—	—
Other	62	136	110	3	1	312	1
Greater than 2000 ppm	—	—	—	—	190	190	1
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	190	190	1
Residual Fuel Oil	24,504	1,383	49,748	—	3,328	78,963	216
Less than 0.31 percent sulfur	1,608	—	880	—	—	2,488	7
0.31 to 1.00 percent sulfur	8,107	109	2,021	—	1,861	12,098	33
Greater than 1.00 percent sulfur	14,789	1,274	46,847	—	1,467	64,377	176
Petrochemical Feedstocks	1,124	1,773	2,493	—	349	5,739	16
Naphtha for Petro. Feed. Use	1,112	1,041	2,060	—	349	4,562	12
Other Oils for Petro. Feed. Use	12	732	433	—	—	1,177	3
Special Naphthas	121	85	4,502	3	23	4,734	13
Lubricants	1,554	2,571	13,406	—	351	17,882	49
Waxes	1,099	146	421	—	369	2,035	6
Petroleum Coke (Marketable)	12	260	3,196	—	—	3,468	10
Asphalt and Road Oil	11,805	5,839	59	951	815	19,469	53
Miscellaneous Products	—	—	—	11	—	11	0
Total	553,531	1,001,945	815,736	112,143	552,534	3,035,889	8,318

-- = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	32,860	—	—	5,328	—	—	—	—	886	886
Algeria	166	—	—	1,171	—	—	—	—	—	—
Angola	137	—	—	60	—	—	—	—	263	263
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	8,552	—	—	1,530	—	—	—	—	—	—
Kuwait	1,471	—	—	—	—	—	—	—	—	—
Libya	2,888	—	—	—	—	—	—	—	—	—
Nigeria	4,148	—	—	—	—	—	—	—	—	—
Saudi Arabia	15,498	—	—	2,567	—	—	—	—	623	623
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	152,834	5,501	486	8,708	—	3,047	3,047	5,553	10,383	15,936
Argentina	1,873	—	—	—	—	—	—	—	315	315
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,268	1,268	512	1,573	2,085
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	605	—	8	8	—	249	249
Brazil	4,579	—	—	401	—	—	—	—	45	45
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	109,528	5,444	486	381	—	511	511	2,479	1,855	4,334
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	6,651	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	258	—	—	—	—	108	108
Ecuador	4,337	—	—	1,097	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	583	583
France	—	—	—	212	—	437	437	—	206	206
Germany	—	—	—	—	—	—	—	—	63	63
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	587	587
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	45	—	12	12	—	574	574
Korea, South	—	—	—	—	—	300	300	—	150	150
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	1,468	—	—	—	—	—	—
Mexico	17,851	—	—	3,074	—	—	—	—	—	—
Netherlands	—	—	—	—	—	59	59	644	381	1,025
Norway	768	—	—	—	—	321	321	—	639	639
Oman	—	—	—	98	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	568	568
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	624	624
Sweden	—	—	—	—	—	11	11	—	612	612
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	1,965	—	—	—	—	—	—	—	—	—
United Kingdom	730	—	—	308	—	120	120	1,918	250	2,168
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	4,552	57	0	761	—	0	0	0	1,001	1,001
Total	185,694	5,501	486	14,036	—	3,047	3,047	5,553	11,269	16,822
Persian Gulf⁴	25,521	—	—	4,097	—	—	—	—	623	623

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	—	—	—	—	—	100	81
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	100	81
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	851	670	52	6,446	103	2	—	6,551	—	37
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	57	—	—	—	57	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	262	—	—	4,992	3	2	—	4,997	—	5
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	52	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	445	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	857	100	—	—	957	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	28	—	—	—	—	—	—	—	—	—
Korea, South	—	116	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	376	—	—	—	376	—	32
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	164	—	—	—	164	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	670	0	0	0	0	—	0	0	0
Total	—	851	670	52	6,446	103	2	—	6,551	100	118
Persian Gulf⁴	—	—	—	—	164	—	—	—	164	100	81

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	415	—	—	—	98	98	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	23	23	—	—
Kuwait	—	415	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	75	75	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	3,349	343	—	731	4,864	5,595	691	127
Argentina	—	—	—	—	272	—	272	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	350	350	—	—
Bahrain	—	—	—	—	—	31	31	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	736	736	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	226	92	—	373	266	639	126	66
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	113	113	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	84	84	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	5
Germany	—	—	29	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	194	—	—	—	—	—	467	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	293	293	74	—
Korea, South	—	2,508	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	14	14	—	—
Mexico	—	—	—	—	—	2,613	2,613	24	56
Netherlands	—	—	168	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	123	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	4	—	—	300	300	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	298	50	—	86	64	150	0	0
Total	—	3,764	343	—	731	4,962	5,693	691	127
Persian Gulf¹	—	538	—	—	—	129	129	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	209	—	7,117	39,977	1,060	230	1,290
Algeria	—	—	—	—	—	1,171	1,337	5	38	43
Angola	—	—	—	—	—	323	460	4	10	15
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	1,553	10,105	276	50	326
Kuwait	—	—	—	—	—	415	1,886	47	13	61
Libya	—	—	—	—	—	—	2,888	93	—	93
Nigeria	—	—	—	—	—	—	4,148	134	—	134
Saudi Arabia	—	—	—	—	—	3,265	18,763	500	105	605
United Arab Emirates	—	—	—	209	—	390	390	—	13	13
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	91	274	1,556	1,406	—	55,275	208,109	4,930	1,783	6,713
Argentina	—	210	—	5	—	802	2,675	60	26	86
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	3,703	3,703	—	119	119
Bahrain	—	—	—	34	—	65	65	—	2	2
Belgium	—	—	—	2	—	864	864	—	28	28
Brazil	—	38	—	—	—	1,279	5,858	148	41	189
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	29	18	1,556	262	—	19,434	128,962	3,533	627	4,160
Chad	—	—	—	—	—	—	—	—	—	—
China	5	—	—	—	—	5	5	—	0	0
Colombia	—	—	—	—	—	113	6,764	215	4	218
Denmark	—	—	—	—	—	366	366	—	12	12
Ecuador	—	—	—	—	—	1,181	5,518	140	38	178
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	635	635	—	20	20
France	—	—	—	5	—	865	865	—	28	28
Germany	—	—	—	10	—	547	547	—	18	18
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	2,206	2,206	—	71	71
Indonesia	—	—	—	93	—	93	93	—	3	3
Italy	—	—	—	8	—	1,034	1,034	—	33	33
Korea, South	—	—	—	560	—	3,634	3,634	—	117	117
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	17	—	—	—	—	1,499	1,499	—	48	48
Mexico	—	—	—	—	—	5,767	23,618	576	186	762
Netherlands	—	—	—	82	—	1,742	1,742	—	56	56
Norway	—	—	—	—	—	960	1,728	25	31	56
Oman	—	—	—	—	—	98	98	—	3	3
Portugal	—	—	—	—	—	568	568	—	18	18
Qatar	—	—	—	306	—	593	593	—	19	19
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	624	624	—	20	20
Sweden	—	—	—	1	—	624	624	—	20	20
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	1,965	63	—	63
United Kingdom	11	8	—	—	—	2,919	3,649	24	94	118
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	29	0	0	37	—	3,055	7,607	146	101	248
Total	91	274	1,556	1,615	—	62,392	248,086	5,990	2,013	8,003
Persian Gulf⁴	—	—	—	549	—	6,281	31,802	823	203	1,026

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	357,261	1,682	—	69,437	—	722	722	1,380	12,243	13,623
Algeria	5,838	506	—	13,526	—	—	—	18	295	313
Angola	15,612	16	—	250	—	18	18	—	1,235	1,235
Congo (Brazzaville)	1,897	—	—	7	—	—	—	—	—	—
Equatorial Guinea	—	813	—	—	—	—	—	—	—	—
Gabon	708	—	—	—	—	—	—	—	—	—
Iran	507	—	—	—	—	—	—	—	—	—
Iraq	89,152	—	—	23,710	—	—	—	—	—	—
Kuwait	9,701	—	—	2,311	—	—	—	—	—	17
Libya	28,706	—	—	46	—	—	—	—	—	—
Nigeria	34,448	110	—	717	—	—	—	—	2,499	2,499
Saudi Arabia	166,304	—	—	22,407	—	704	704	1,063	7,993	9,056
United Arab Emirates	4,388	—	—	6,463	—	—	—	282	221	503
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,934,167	56,126	5,549	119,229	—	35,838	35,838	56,210	126,771	182,981
Argentina	22,792	55	—	235	—	30	30	—	2,584	2,584
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	700	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	4,755	4,755	817	4,781	5,598
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,837	—	3,207	3,207	727	1,787	2,514
Brazil	53,354	—	—	4,413	—	—	—	—	2,466	2,466
Brunei	—	—	—	—	—	—	—	—	287	287
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	1,384,850	55,456	5,498	8,408	—	5,260	5,260	24,123	18,246	42,369
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	81,440	—	—	727	—	—	—	—	14	14
Denmark	—	—	—	258	—	1	1	13	281	294
Ecuador	51,974	—	—	8,201	—	—	—	—	—	—
Egypt	—	—	—	1,366	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	100	—	41	41	—	6,044	6,044
France	—	—	—	1,855	—	2,513	2,513	1,179	3,635	4,814
Germany	—	2	—	278	—	390	390	17	791	808
Guatemala	868	—	—	—	—	—	—	—	—	—
India	—	—	—	1,444	—	400	400	677	19,507	20,184
Indonesia	1,184	—	—	—	—	—	—	—	—	—
Italy	—	—	—	2,722	—	1,869	1,869	325	8,019	8,344
Korea, South	—	7	—	50	—	4,903	4,903	—	5,166	5,166
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	113	—	1,578	1,578	53	752	805
Malaysia	—	—	—	7,300	—	—	—	—	621	621
Mexico	232,426	—	25	27,602	—	—	—	—	1,572	1,572
Netherlands	—	—	—	2,944	—	3,411	3,411	10,471	6,285	16,756
Norway	6,857	196	—	—	—	1,938	1,938	2,147	3,402	5,549
Oman	—	—	—	581	—	—	—	—	308	308
Portugal	—	—	—	—	—	348	348	3	7,630	7,633
Qatar	—	—	—	566	—	8	8	8	12	20
Russia	7,390	—	—	35,999	—	331	331	—	2,302	2,302
Spain	—	—	—	1,276	—	1,451	1,451	420	10,118	10,538
Sweden	—	—	—	88	—	250	250	11	2,513	2,524
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	16,033	213	—	—	—	39	39	—	—	—
United Kingdom	14,211	—	—	1,659	—	2,091	2,091	14,622	5,086	19,708
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	60,088	197	26	9,207	—	1,024	1,024	597	12,562	13,159
Total	2,291,428	57,808	5,549	188,666	—	36,560	36,560	57,590	139,014	196,604
Persian Gulf⁴	270,052	—	—	55,457	—	712	712	1,370	8,226	9,596

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	10	—	3,132	—	—	—	3,132	100	81
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	10	—	48	—	—	—	48	100	81
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,645	5,950	6,244	114	63,469	1,514	312	190	65,485	18	351
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	805	—	62	—	867	—	—
Brazil	1,638	—	—	—	57	25	—	—	82	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	7	2,937	—	—	47,659	129	140	—	47,928	—	74
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	717	—	—	—	717	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	49
Finland	—	—	—	102	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	1,830	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	857	100	—	—	957	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	296	—	—	—	—	—	—	—	—	—
Korea, South	—	298	—	—	2,053	1,260	—	—	3,313	18	13
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	1	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	94	—	3,770	—	—	—	3,770	—	215
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,889	—	—	—	3,889	—	—
Russia	—	—	—	—	2,157	—	110	—	2,267	—	—
Spain	—	490	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	6,150	11	734	0	0	0	734	0	0
Total	1,645	5,950	6,254	114	66,601	1,514	312	190	68,617	118	432
Persian Gulf⁴	—	—	10	—	6,376	—	—	—	6,376	100	81

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	4,079	28	1,229	62	3,269	4,560	70	—
Algeria	—	121	—	1,229	—	5	1,234	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	806	806	—	—
Kuwait	—	3,287	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	28	—	—	2,424	2,424	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	39,684	4,706	1,259	12,036	61,108	74,403	4,492	1,177
Argentina	—	—	—	—	668	1	669	—	113
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	1,179	1,211	—	—
Bahrain	—	—	—	—	—	282	282	—	—
Belgium	—	14	—	—	983	684	1,667	—	—
Brazil	—	—	—	—	92	7,250	7,342	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	3,652	1,221	371	1,386	4,955	6,712	1,117	846
Chad	—	—	—	—	—	—	—	—	—
China	—	1,777	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	4,893	5,118	—	—
Denmark	—	—	—	—	384	—	384	—	—
Ecuador	—	—	—	—	100	1,152	1,252	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	121
Germany	—	1	51	145	804	53	1,002	52	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	1,513	—	—	—	—	—	467	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	450	450	74	—
Korea, South	—	23,217	2,898	—	—	—	—	322	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	677	677	—	—
Mexico	—	10	37	—	616	31,175	31,791	1,008	87
Netherlands	—	—	201	—	533	1,234	1,767	8	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	565	—	—	—	—	—	9	—
Russia	—	—	—	—	1,097	4,388	5,485	—	—
Spain	—	—	38	—	683	8	691	25	—
Sweden	—	—	—	—	396	32	428	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	4	—	419	315	734	101	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	8,935	256	743	3,230	1,159	5,132	1,240	0
Total	—	43,763	4,734	2,488	12,098	64,377	78,963	4,562	1,177
Persian Gulf¹	—	4,523	28	—	—	3,516	3,516	9	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	2,296	—	99,975	457,236	979	274	1,253
Algeria	—	—	—	—	—	15,700	21,538	16	43	59
Angola	—	—	—	—	—	1,589	17,201	43	4	47
Congo (Brazzaville)	—	—	—	—	—	336	2,233	5	1	6
Equatorial Guinea	—	—	—	—	—	813	813	—	2	2
Gabon	—	—	—	—	—	—	708	2	—	2
Iran	—	—	—	—	—	—	507	1	—	1
Iraq	—	—	—	—	—	24,516	113,668	244	67	311
Kuwait	—	155	—	—	—	5,792	15,493	27	16	42
Libya	—	—	—	—	—	46	28,752	79	0	79
Nigeria	—	—	—	—	—	3,971	38,419	94	11	105
Saudi Arabia	—	—	—	64	—	37,496	203,800	456	103	558
United Arab Emirates	—	—	—	2,232	—	9,716	14,104	12	27	39
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	2,035	3,313	19,469	15,586	11	644,486	2,578,653	5,299	1,766	7,065
Argentina	—	1,034	—	54	—	4,774	27,566	62	13	76
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	2	—	2
Bahamas	—	—	—	—	—	11,564	11,564	—	32	32
Bahrain	—	—	—	678	—	960	960	—	3	3
Brazil	—	—	—	35	—	10,240	10,240	—	28	28
Brazil	—	1,340	—	—	—	17,336	70,690	146	47	194
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	1	1	—	0	0
Canada	1,072	256	17,933	3,463	11	204,220	1,589,070	3,794	560	4,354
Chad	—	—	—	—	—	—	—	—	—	—
China	284	—	—	—	—	2,092	2,092	—	6	6
Colombia	—	112	230	—	—	6,918	88,358	223	19	242
Denmark	—	—	—	23	—	960	960	—	3	3
Ecuador	—	—	—	—	—	9,643	61,617	142	26	169
Egypt	22	—	—	—	—	1,415	1,415	—	4	4
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	6,287	6,287	—	17	17
France	—	—	—	128	—	9,602	9,602	—	26	26
Germany	—	139	—	148	—	4,721	4,721	—	13	13
Guatemala	—	—	—	—	—	—	868	2	—	2
India	—	—	—	9	—	24,974	24,974	—	68	68
Indonesia	—	—	—	1,246	—	1,246	2,430	3	3	7
Italy	—	—	98	173	—	14,026	14,026	—	38	38
Korea, South	7	—	—	4,337	—	44,549	44,549	—	122	122
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	3,615	3,615	—	10	10
Malaysia	193	—	—	—	—	8,792	8,792	—	24	24
Mexico	4	—	—	—	—	62,136	294,562	637	170	807
Netherlands	—	—	—	815	—	29,981	29,981	—	82	82
Norway	—	—	—	—	—	8,044	14,901	19	22	41
Oman	—	133	—	65	—	1,581	1,581	—	4	4
Portugal	—	—	—	—	—	8,237	8,237	—	23	23
Qatar	—	—	—	4,125	—	9,182	9,182	—	25	25
Russia	—	—	—	5	—	46,389	53,779	20	127	147
Spain	11	202	591	—	—	15,313	15,313	—	42	42
Sweden	—	4	—	7	—	3,301	3,301	—	9	9
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	252	16,285	44	1	45
United Kingdom	85	35	—	52	—	24,479	38,690	39	67	106
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	357	58	617	223	0	47,320	107,408	166	131	293
Total	2,035	3,468	19,469	17,882	11	744,461	3,035,889	6,278	2,040	8,318
Persian Gulf⁴	—	155	—	7,099	—	87,662	357,714	740	240	980

— = Not Applicable.
 — = No Data Reported.
¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
² Includes crude oil imported for storage in the Strategic Petroleum Reserve.
³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
 Note: Totals may not equal sum of components due to independent rounding.
 Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,504	—	—	60	—	—	—	—	886	886
Algeria	166	—	—	—	—	—	—	—	—	—
Angola	137	—	—	60	—	—	—	—	263	263
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	1,854	—	—	—	—	—	—	—	—	—
Nigeria	4,148	—	—	—	—	—	—	—	—	—
Saudi Arabia	3,199	—	—	—	—	—	—	—	623	623
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	10,103	1,062	282	901	—	2,556	2,556	5,553	8,938	14,491
Argentina	477	—	—	—	—	—	—	—	291	291
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,268	1,268	512	1,573	2,085
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	194	—	8	8	—	229	229
Brazil	—	—	—	—	—	—	—	—	15	15
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	4,615	1,060	282	—	—	320	320	2,479	1,166	3,645
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	108	108
Ecuador	—	—	—	189	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	583	583
France	—	—	—	—	—	437	437	—	206	206
Germany	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	587	587
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	12	12	—	574	574
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	1,990	—	—	300	—	—	—	—	—	—
Netherlands	—	—	—	—	—	59	59	644	291	935
Norway	768	—	—	—	—	321	321	—	639	639
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	568	568
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	624	624
Sweden	—	—	—	—	—	11	11	—	612	612
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	384	—	—	—	—	—	—	—	—	—
United Kingdom	329	—	—	—	—	120	120	1,918	180	2,098
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,540	2	0	218	—	0	0	0	692	692
Total	19,607	1,062	282	961	—	2,556	2,556	5,553	9,824	15,377
Persian Gulf⁴	3,199	—	—	—	—	—	—	—	623	623

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	—	—	—	—	—	100	81
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	100	81
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	390	—	—	5,817	100	—	—	5,917	—	32
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	90	—	—	4,420	—	—	—	4,420	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	300	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	857	100	—	—	957	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	376	—	—	—	376	—	32
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	164	—	—	—	164	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	0	—	—	0	0	0
Total	—	390	—	—	5,817	100	—	—	5,917	100	113
Persian Gulf⁴	—	—	—	—	164	—	—	—	164	100	81

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	415	—	—	—	75	75	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	415	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	75	75	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	809	1	—	689	1,117	1,806	584	1
Argentina	—	—	—	—	272	—	272	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	31	31	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	34	34	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	192	1	—	331	55	386	43	1
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	113	113	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	84	84	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	194	—	—	—	—	—	467	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	74	—
Korea, South	—	423	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	436	436	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	300	300	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	86	64	150	0	0
Total	—	1,224	1	—	689	1,192	1,881	584	1
Persian Gulf¹	—	415	—	—	—	106	106	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	1,617	11,121	307	52	359
Algeria	—	—	—	—	—	—	166	5	—	5
Angola	—	—	—	—	—	323	460	4	10	15
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	415	415	—	13	13
Libya	—	—	—	—	—	—	1,854	60	—	60
Nigeria	—	—	—	—	—	—	4,148	134	—	134
Saudi Arabia	—	—	—	—	—	698	3,897	103	23	126
United Arab Emirates	—	—	—	—	—	181	181	—	6	6
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	34	—	919	132	—	29,917	40,020	326	965	1,291
Argentina	—	—	—	—	—	563	1,040	15	18	34
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	3,353	3,353	—	108	108
Bahrain	—	—	—	—	—	31	31	—	1	1
Belgium	—	—	—	—	—	431	431	—	14	14
Brazil	—	—	—	—	—	51	51	—	2	2
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	29	—	919	66	—	11,454	16,069	149	369	518
Chad	—	—	—	—	—	—	—	—	—	—
China	5	—	—	—	—	5	5	—	0	0
Colombia	—	—	—	—	—	113	113	—	4	4
Denmark	—	—	—	—	—	108	108	—	3	3
Ecuador	—	—	—	—	—	273	273	—	9	9
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	583	583	—	19	19
France	—	—	—	3	—	646	646	—	21	21
Germany	—	—	—	8	—	308	308	—	10	10
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	2,205	2,205	—	71	71
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	2	—	662	662	—	21	21
Korea, South	—	—	—	52	—	475	475	—	15	15
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	736	2,726	64	24	88
Netherlands	—	—	—	1	—	1,403	1,403	—	45	45
Norway	—	—	—	—	—	960	1,728	25	31	56
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	568	568	—	18	18
Qatar	—	—	—	—	—	164	164	—	5	5
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	624	624	—	20	20
Sweden	—	—	—	—	—	623	623	—	20	20
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	384	12	—	12
United Kingdom	—	—	—	—	—	2,518	2,847	11	81	92
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	0	—	1,060	2,600	50	36	85
Total	34	—	919	132	—	31,534	51,141	632	1,017	1,650
Persian Gulf⁴	—	—	—	—	—	1,489	4,688	103	48	151

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	77,532	1,902	204	-	-	-	-	-	656	656
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	77,532	1,902	204	-	-	-	-	-	656	656
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	77,532	1,902	204	-	-	-	-	-	656	656
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	98	-	-	373	3	2	-	378	-	2
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	98	-	-	373	3	2	-	378	-	2
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0
Total	-	98	-	-	373	3	2	-	378	-	2
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	4	-	4	74	78	83	65
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	4	-	4	74	78	83	65
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	0	0	0	0	0
Total	-	-	4	-	4	74	78	83	65
Persian Gulf¹	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	18	468	196	—	4,152	81,684	2,501	134	2,635
Argentina	—	—	—	1	—	1	1	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	18	468	194	—	4,150	81,682	2,501	134	2,635
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	1	—	1	1	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	—	0	0	0	—	0	0	0	0	0
Total	—	18	468	196	—	4,152	81,684	2,501	134	2,635
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	7,995	-	-	4,690	-	-	-	-	-	-
Algeria	-	-	-	593	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,163	-	-	1,530	-	-	-	-	-	-
Kuwait	709	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	6,123	-	-	2,567	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	33,781	-	-	6,624	-	-	-	-	127	127
Argentina	-	-	-	-	-	-	-	-	24	24
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	411	-	-	-	-	-	-
Brazil	512	-	-	401	-	-	-	-	30	30
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	11,045	-	-	341	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	4,687	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	908	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	212	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	35	35
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	1	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1,118	-	-	-	-	-	-
Mexico	15,101	-	-	2,774	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	38	38
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	98	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,034	-	-	-	-	-	-	-	-	-
United Kingdom	401	-	-	241	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,001	-	-	119	-	-	-	-	0	0
Total	41,776	-	-	11,314	-	-	-	-	127	127
Persian Gulf⁴	7,995	-	-	4,097	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	173	-	52	57	-	-	-	57	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	57	-	-	-	57	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	52	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	145	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	28	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	-	-	-	0	-	-
Total	-	173	-	52	57	-	-	-	57	-	-
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	23	23	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	23	23	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	123	312	—	—	3,599	3,599	24	61
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	350	350	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	702	702	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	61	—	—	63	63	—	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	5
Germany	—	—	29	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	293	293	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	14	14	—	—
Mexico	—	—	—	—	—	2,177	2,177	24	56
Netherlands	—	—	168	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	123	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	4	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	50	—	—	0	0	0	0
Total	—	123	312	—	—	3,622	3,622	24	61
Persian Gulf¹	—	123	—	—	—	23	23	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	209	—	4,922	12,917	258	159	417
Algeria	—	—	—	—	—	593	593	—	19	19
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	1,553	2,716	38	50	88
Kuwait	—	—	—	—	—	—	709	23	—	23
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	2,567	8,690	198	83	280
United Arab Emirates	—	—	—	209	—	209	209	—	7	7
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	44	256	—	1,019	—	12,475	46,256	1,090	402	1,492
Argentina	—	210	—	4	—	238	238	—	8	8
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	350	350	—	11	11
Bahrain	—	—	—	34	—	34	34	—	1	1
Belgium	—	—	—	2	—	413	413	—	13	13
Brazil	—	38	—	—	—	1,228	1,740	17	40	56
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	465	11,510	356	15	371
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	4,687	151	—	151
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	908	908	—	29	29
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	52	52	—	2	2
France	—	—	—	2	—	219	219	—	7	7
Germany	—	—	—	1	—	210	210	—	7	7
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	1	1	—	0	0
Indonesia	—	—	—	93	—	93	93	—	3	3
Italy	—	—	—	6	—	328	328	—	11	11
Korea, South	—	—	—	508	—	508	508	—	16	16
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	17	—	—	—	—	1,149	1,149	—	37	37
Mexico	—	—	—	—	—	5,031	20,132	487	162	649
Netherlands	—	—	—	81	—	287	287	—	9	9
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	98	98	—	3	3
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	249	—	372	372	—	12	12
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	1	—	1	1	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	1,034	33	—	33
United Kingdom	11	8	—	—	—	264	665	13	9	21
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	16	0	—	37	—	226	1,227	33	7	42
Total	44	256	—	1,228	—	17,397	59,173	1,348	561	1,909
Persian Gulf⁴	—	—	—	492	—	4,735	12,730	258	153	411

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components			
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total	
OPEC	PAD District 4										
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
Non-OPEC	8,756	927	-	-	-	-	-	-	33	33	
Canada	8,756	927	-	-	-	-	-	-	33	33	
Ecuador	-	-	-	-	-	-	-	-	-	-	
Qatar	-	-	-	-	-	-	-	-	-	-	
Other	0	0	-	-	-	-	-	-	0	0	
Total	8,756	927	-	-	-	-	-	-	33	33	
OPEC	PAD District 5										
	15,361	-	-	578	-	-	-	-	-	-	
	-	-	-	578	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	7,389	-	-	-	-	-	-	-	-	-	
	762	-	-	-	-	-	-	-	-	-	
	1,034	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	6,176	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	Non-OPEC	22,662	1,610	-	1,183	-	491	491	-	629	629
	Argentina	1,396	-	-	-	-	-	-	-	-	-
	Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	
Brazil	4,067	-	-	-	-	-	-	-	-	-	
Brunei	-	-	-	-	-	-	-	-	-	-	
Canada	7,580	1,555	-	40	-	191	191	-	-	-	
China	-	-	-	-	-	-	-	-	-	-	
Colombia	1,964	-	-	-	-	-	-	-	-	-	
Ecuador	4,337	-	-	-	-	-	-	-	-	-	
Finland	-	-	-	-	-	-	-	-	-	-	
Germany	-	-	-	-	-	-	-	-	28	28	
Indonesia	-	-	-	-	-	-	-	-	-	-	
Japan	-	-	-	-	-	-	-	-	300	300	
Korea, South	-	-	-	-	-	300	300	-	150	150	
Malaysia	-	-	-	350	-	-	-	-	-	-	
Mexico	760	-	-	-	-	-	-	-	-	-	
Netherlands	-	-	-	-	-	-	-	-	52	52	
Oman	-	-	-	-	-	-	-	-	-	-	
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	
Peru	-	-	-	-	-	-	-	-	-	-	
Qatar	-	-	-	-	-	-	-	-	-	-	
Singapore	-	-	-	70	-	-	-	-	-	-	
Sweden	-	-	-	-	-	-	-	-	-	-	
Taiwan	-	-	-	-	-	-	-	-	-	-	
United Kingdom	-	-	-	67	-	-	-	-	70	70	
Vietnam	-	-	-	-	-	-	-	-	-	-	
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	
Other	2,558	55	-	656	-	0	0	-	29	29	
Total	38,023	1,610	-	1,761	-	491	491	-	629	629	
Persian Gulf ⁴	14,327	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	10	-	-	28	-	-	-	28	-	1
Canada	-	10	-	-	28	-	-	-	28	-	1
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	-	-	0	-	0
Total	-	10	-	-	28	-	-	-	28	-	1
	PAD District 5										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	180	670	-	171	-	-	-	171	-	2
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	64	-	-	171	-	-	-	171	-	2
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	116	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	670	-	0	-	-	-	0	-	0
Total	-	180	670	-	171	-	-	-	171	-	2
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	3	-	-	-	-	-	-
Canada	-	-	3	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	-	-	-	-	-
Total	-	-	3	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2,417	23	-	38	74	112	-	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	34	23	-	38	74	112	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea, South	-	2,085	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	298	0	-	0	0	0	-	-
Total	-	2,417	23	-	38	74	112	-	-
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
	PAD District 4									
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	105	—	—	1,107	9,863	282	36	318
Canada	—	—	105	—	—	1,107	9,863	282	36	318
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	—	0	0	0	0	0
Total	—	—	105	—	—	1,107	9,863	282	36	318
	PAD District 5									
OPEC	—	—	—	—	—	578	15,939	496	19	514
Algeria	—	—	—	—	—	578	578	—	19	19
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	7,389	238	—	238
Kuwait	—	—	—	—	—	—	762	25	—	25
Libya	—	—	—	—	—	—	1,034	33	—	33
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	6,176	199	—	199
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	13	—	64	59	—	7,624	30,286	731	246	977
Argentina	—	—	—	—	—	—	1,396	45	—	45
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	4,067	131	—	131
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	64	2	—	2,258	9,838	245	73	317
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	1,964	63	—	63
Ecuador	—	—	—	—	—	—	4,337	140	—	140
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	28	28	—	1	1
Indonesia	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	300	300	—	10	10
Korea, South	—	—	—	—	—	2,651	2,651	—	86	86
Malaysia	—	—	—	—	—	350	350	—	11	11
Mexico	—	—	—	—	—	—	760	25	—	25
Netherlands	—	—	—	—	—	52	52	—	2	2
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	57	—	57	57	—	2	2
Singapore	—	—	—	—	—	740	740	—	24	24
Sweden	—	—	—	—	—	—	—	—	—	—
Taiwan	13	—	—	—	—	13	13	—	0	0
United Kingdom	—	—	—	—	—	137	137	—	4	4
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	0	—	1,038	3,596	82	33	116
Total	13	—	64	59	—	8,202	46,225	1,227	265	1,491
Persian Gulf ⁴	—	—	—	57	—	57	14,384	462	2	464

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	108,018	1,252	-	1,799	-	344	344	829	11,457	12,286
Algeria	5,838	506	-	-	-	-	-	18	295	313
Angola	12,855	-	-	250	-	18	18	-	1,235	1,235
Congo (Brazzaville)	932	-	-	7	-	-	-	-	-	-
Equatorial Guinea	-	509	-	-	-	-	-	-	-	-
Gabon	708	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	346	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	20,271	-	-	-	-	-	-	-	-	-
Nigeria	34,448	-	-	717	-	-	-	-	2,499	2,499
Saudi Arabia	32,966	-	-	479	-	326	326	514	7,207	7,721
United Arab Emirates	-	-	-	-	-	-	-	282	221	503
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	116,758	10,218	3,118	12,092	-	27,313	27,313	54,729	95,242	149,971
Argentina	2,936	-	-	235	-	30	30	-	1,833	1,833
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	4,312	4,312	817	4,436	5,253
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	194	-	3,207	3,207	727	1,588	2,315
Brazil	-	-	-	-	-	-	-	-	1,973	1,973
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	47,070	10,019	3,118	-	-	3,723	3,723	24,123	12,000	36,123
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,493	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	1	1	13	181	194
Ecuador	-	-	-	697	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	100	-	41	41	-	5,667	5,667
France	-	-	-	612	-	2,377	2,377	1,177	3,403	4,580
Germany	-	-	-	4	-	390	390	17	561	578
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	333	-	-	-	623	12,872	13,495
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	203	-	1,869	1,869	233	7,139	7,372
Korea, South	-	-	-	50	-	-	-	-	685	685
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	1,578	1,578	53	734	787
Malaysia	-	-	-	-	-	-	-	-	437	437
Mexico	21,843	-	-	3,354	-	-	-	-	1,341	1,341
Netherlands	-	-	-	302	-	3,411	3,411	9,471	5,921	15,392
Norway	6,857	196	-	-	-	1,938	1,938	2,147	3,334	5,481
Oman	-	-	-	-	-	-	-	-	308	308
Portugal	-	-	-	-	-	348	348	3	7,350	7,353
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	3,098	-	-	2,793	-	-	-	-	2,153	2,153
Spain	-	-	-	775	-	1,451	1,451	420	9,542	9,962
Sweden	-	-	-	-	-	250	250	11	2,247	2,258
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	3,323	-	-	-	-	39	39	-	-	-
United Kingdom	5,089	-	-	882	-	2,006	2,006	14,622	3,696	18,318
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	24,341	3	0	1,558	-	342	342	272	5,841	6,113
Total	224,776	11,470	3,118	13,891	-	27,657	27,657	55,558	106,699	162,257
Persian Gulf⁴	32,966	-	-	825	-	326	326	811	7,428	8,239

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	3,132	—	—	—	3,132	100	81
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	—	—	48	—	—	—	48	100	81
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	444	2,656	—	—	51,820	174	62	—	52,056	—	175
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	805	—	62	—	867	—	—
Brazil	444	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	787	—	—	37,727	74	—	—	37,801	—	9
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	717	—	—	—	717	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	1,391	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	857	100	—	—	957	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	79	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	928	—	—	—	928	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	3,770	—	—	—	3,770	—	166
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,889	—	—	—	3,889	—	—
Russia	—	—	—	—	2,021	—	—	—	2,021	—	—
Spain	—	300	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	335	0	0	—	335	0	0
Total	444	2,656	—	—	54,952	174	62	—	55,188	100	256
Persian Gulf⁴	—	—	—	—	6,376	—	—	—	6,376	100	81

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	4,079	—	349	62	1,091	1,502	70	—
Algeria	—	121	—	349	—	5	354	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	144	144	—	—
Kuwait	—	3,287	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	908	908	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	7,420	121	1,259	8,045	13,698	23,002	1,042	12
Argentina	—	—	—	—	668	1	669	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	324	356	—	—
Bahrain	—	—	—	—	—	282	282	—	—
Belgium	—	—	—	—	983	134	1,117	—	—
Brazil	—	—	—	—	4	415	419	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2,871	121	371	392	1,470	2,233	65	12
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	4,012	4,237	—	—
Denmark	—	—	—	—	384	—	384	—	—
Ecuador	—	—	—	—	100	953	1,053	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	—
Germany	—	—	—	145	804	14	963	38	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	1,513	—	—	—	—	—	467	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	74	—
Korea, South	—	1,987	—	—	—	—	—	63	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	—	—	616	3,747	4,363	—	—
Netherlands	—	—	—	—	533	456	989	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	—	—
Russia	—	—	—	—	—	882	882	—	—
Spain	—	—	—	—	683	8	691	—	—
Sweden	—	—	—	—	396	—	396	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	29	311	340	4	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	597	0	743	1,835	587	3,165	262	0
Total	—	11,499	121	1,608	8,107	14,789	24,504	1,112	12
Persian Gulf¹	—	4,400	—	—	—	1,338	1,338	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	137	—	24,782	132,800	296	68	364
Algeria	—	—	—	—	—	1,294	7,132	16	4	20
Angola	—	—	—	—	—	1,573	14,428	35	4	40
Congo (Brazzaville)	—	—	—	—	—	336	1,268	3	1	3
Equatorial Guinea	—	—	—	—	—	509	509	—	1	1
Gabon	—	—	—	—	—	—	708	2	—	2
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	490	490	—	1	1
Kuwait	—	—	—	—	—	3,324	3,324	—	9	9
Libya	—	—	—	—	—	—	20,271	56	—	56
Nigeria	—	—	—	—	—	3,861	38,309	94	11	105
Saudi Arabia	—	—	—	—	—	12,247	45,213	90	34	124
United Arab Emirates	—	—	—	137	—	1,148	1,148	—	3	3
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,099	12	11,805	1,417	—	303,973	420,731	320	833	1,153
Argentina	—	—	—	—	—	2,767	5,703	8	8	16
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	9,921	9,921	—	27	27
Bahrain	—	—	—	19	—	301	301	—	1	1
Belgium	—	—	—	2	—	7,801	7,801	—	21	21
Brazil	—	3	—	—	—	2,841	2,841	—	8	8
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	1	1	—	0	0
Canada	930	—	10,541	843	—	109,196	156,266	129	299	428
Chad	—	—	—	—	—	—	—	—	—	—
China	130	—	—	—	—	131	131	—	0	0
Colombia	—	—	230	—	—	5,184	6,677	4	14	18
Denmark	—	—	—	23	—	602	602	—	2	2
Ecuador	—	—	—	—	—	1,750	1,750	—	5	5
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	5,808	5,808	—	16	16
France	—	—	—	92	—	7,832	7,832	—	21	21
Germany	—	—	—	102	—	3,486	3,486	—	10	10
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	16,765	16,765	—	46	46
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	98	40	—	9,735	9,735	—	27	27
Korea, South	7	—	—	143	—	3,863	3,863	—	11	11
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	2,365	2,365	—	6	6
Malaysia	6	—	—	—	—	443	443	—	1	1
Mexico	—	—	—	—	—	9,068	30,911	60	25	85
Netherlands	—	—	—	124	—	24,154	24,154	—	66	66
Norway	—	—	—	—	—	7,976	14,833	19	22	41
Oman	—	—	—	—	—	802	802	—	2	2
Portugal	—	—	—	—	—	7,957	7,957	—	22	22
Qatar	—	—	—	—	—	4,331	4,331	—	12	12
Russia	—	—	—	5	—	7,854	10,952	8	22	30
Spain	9	—	377	—	—	13,565	13,565	—	37	37
Sweden	—	—	—	6	—	2,910	2,910	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	39	3,362	9	0	9
United Kingdom	—	2	—	—	—	21,552	26,641	14	59	73
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	17	7	559	18	—	12,973	37,314	67	35	102
Total	1,099	12	11,805	1,554	—	328,755	553,531	616	901	1,517
Persian Gulf⁴	—	—	—	156	—	21,841	54,807	90	60	150

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	952,866	24,697	2,380	-	-	-	-	-	5,269	5,269
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	952,866	24,690	2,380	-	-	-	-	-	5,269	5,269
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	7	0	-	-	-	-	-	0	0
Total	952,866	24,697	2,380	-	-	-	-	-	5,269	5,269
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1,060	-	-	3,343	55	136	-	3,534	-	48
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	1,060	-	-	3,343	55	136	-	3,534	-	48
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0
Total	-	1,060	-	-	3,343	55	136	-	3,534	-	48
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	34	85	—	109	1,274	1,383	1,041	732
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	34	85	—	109	1,274	1,383	1,041	732
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	0	0	0	0	0
Total	—	34	85	—	109	1,274	1,383	1,041	732
Persian Gulf⁴	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	146	260	5,839	2,571	—	49,079	1,001,945	2,611	134	2,745
Argentina	—	—	—	8	—	8	8	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1	—	1	1	—	0	0
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	142	256	5,839	2,557	—	49,050	1,001,916	2,611	134	2,745
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	1	—	1	1	—	0	0
Germany	—	—	—	4	—	4	4	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	7	7	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	4	—	—	—	4	4	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	4	0	0	0	—	4	4	0	0	0
Total	146	260	5,839	2,571	—	49,079	1,001,945	2,611	134	2,745
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	104,068	16	-	55,554	-	-	-	-	-	-
Algeria	-	-	-	3,217	-	-	-	-	-	-
Angola	949	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	20,445	-	-	23,364	-	-	-	-	-	-
Kuwait	6,716	-	-	2,311	-	-	-	-	-	-
Libya	-	-	-	46	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	75,451	-	-	20,153	-	-	-	-	-	-
United Arab Emirates	-	-	-	6,463	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	467,474	32	51	96,633	-	179	179	417	15,696	16,113
Argentina	-	-	-	-	-	-	-	-	751	751
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	46	46
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,084	-	-	-	-	179	179
Brazil	3,982	-	-	4,413	-	-	-	-	493	493
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	188,311	-	-	7,528	-	-	-	-	26	26
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	58,435	-	-	528	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	-	100	100
Ecuador	-	-	-	6,577	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	377	377
France	-	-	-	1,243	-	48	48	-	231	231
Germany	-	-	-	214	-	-	-	-	202	202
Guatemala	868	-	-	-	-	-	-	-	-	-
India	-	-	-	764	-	-	-	-	3,778	3,778
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	2,314	-	-	-	92	441	533
Korea, South	-	-	-	-	-	-	-	-	2,383	2,383
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	113	-	-	-	-	18	18
Malaysia	-	-	-	6,950	-	-	-	-	184	184
Mexico	194,883	-	25	20,446	-	-	-	-	231	231
Netherlands	-	-	-	2,642	-	-	-	-	227	227
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	581	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	280	280
Qatar	-	-	-	566	-	-	-	-	-	-
Russia	-	-	-	31,716	-	46	46	-	149	149
Spain	-	-	-	501	-	-	-	-	442	442
Sweden	-	-	-	88	-	-	-	-	94	94
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	9,076	-	-	-	-	-	-	-	-	-
United Kingdom	8,623	-	-	550	-	85	85	-	392	392
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	3,296	32	26	6,449	-	0	0	325	4,371	4,696
Total	571,542	48	51	152,187	-	179	179	417	15,696	16,113
Persian Gulf⁴	103,119	-	-	52,857	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1,059	-	102	193	25	110	-	328	-	98
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	57	25	-	-	82	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	213	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	49
Finland	-	-	-	102	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	439	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	217	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	49
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	136	-	110	-	246	-	-
Spain	-	190	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	0	0	-	0	-	0
Total	-	1,059	-	102	193	25	110	-	328	-	98
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	28	880	—	2,143	3,023	—	—
Algeria	—	—	—	880	—	—	880	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	627	627	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	28	—	—	1,516	1,516	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	124	4,474	—	2,021	44,704	46,725	2,060	433
Argentina	—	—	—	—	—	—	—	—	113
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	855	855	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	550	550	—	—
Brazil	—	—	—	—	88	6,835	6,923	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	989	—	282	1,062	1,344	11	102
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	881	881	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	199	199	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	121
Germany	—	1	51	—	—	39	39	14	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	450	450	—	—
Korea, South	—	—	2,898	—	—	—	—	246	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	677	677	—	—
Mexico	—	—	37	—	—	27,335	27,335	1,008	87
Netherlands	—	—	201	—	—	778	778	8	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	123	—	—	—	—	—	9	—
Russia	—	—	—	—	400	3,506	3,906	—	—
Spain	—	—	38	—	—	—	—	25	—
Sweden	—	—	—	—	—	32	32	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	4	—	390	4	394	97	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	256	0	834	382	1,216	642	0
Total	—	124	4,502	880	2,021	46,847	49,748	2,060	433
Persian Gulf¹	—	123	28	—	—	2,143	2,143	9	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	2,159	—	60,935	165,003	285	167	452
Algeria	—	—	—	—	—	4,097	4,097	—	11	11
Angola	—	—	—	—	—	—	949	3	—	3
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	16	16	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	507	1	—	1
Iraq	—	—	—	—	—	23,991	44,436	56	66	122
Kuwait	—	155	—	—	—	2,466	9,182	18	7	25
Libya	—	—	—	—	—	46	46	—	0	0
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	64	—	21,761	97,212	207	60	266
United Arab Emirates	—	—	—	2,095	—	8,558	8,558	—	23	23
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	421	3,041	59	11,247	—	183,259	650,733	1,281	502	1,783
Argentina	—	1,034	—	46	—	1,944	1,944	—	5	5
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	901	901	—	2	2
Bahrain	—	—	—	659	—	659	659	—	2	2
Belgium	—	—	—	32	—	1,845	1,845	—	5	5
Brazil	—	1,337	—	—	—	13,301	17,283	11	36	47
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	1	14	—	10,228	198,539	516	28	544
Chad	—	—	—	—	—	—	—	—	—	—
China	12	—	—	—	—	42	42	—	0	0
Colombia	—	112	—	—	—	1,535	59,970	160	4	164
Denmark	—	—	—	—	—	100	100	—	0	0
Ecuador	—	—	—	—	—	6,776	6,776	—	19	19
Egypt	22	—	—	—	—	1,415	1,415	—	4	4
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	479	479	—	1	1
France	—	—	—	35	—	1,678	1,678	—	5	5
Germany	—	139	—	42	—	1,143	1,143	—	3	3
Guatemala	—	—	—	—	—	—	868	2	—	2
India	—	—	—	9	—	4,551	4,551	—	12	12
Indonesia	—	—	—	1,246	—	1,246	1,246	—	3	3
Italy	—	—	—	133	—	3,647	3,647	—	10	10
Korea, South	—	—	—	4,110	—	9,637	9,637	—	26	26
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,250	1,250	—	3	3
Malaysia	186	—	—	—	—	7,997	7,997	—	22	22
Mexico	4	—	—	—	—	49,173	244,056	534	135	669
Netherlands	—	—	—	691	—	4,596	4,596	—	13	13
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	133	—	65	—	779	779	—	2	2
Portugal	—	—	—	—	—	280	280	—	1	1
Qatar	—	—	—	3,908	—	4,606	4,606	—	13	13
Russia	—	—	—	—	—	36,063	36,063	—	99	99
Spain	2	202	—	—	—	1,400	1,400	—	4	4
Sweden	—	—	—	1	—	215	215	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	9,076	25	—	25
United Kingdom	85	33	—	52	—	1,702	10,325	24	5	28
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	110	51	58	204	—	13,735	17,031	9	38	48
Total	421	3,196	59	13,406	—	244,194	815,736	1,566	669	2,235
Persian Gulf⁴	—	155	—	6,726	—	62,041	165,160	283	170	452

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components			
					Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 4											
	OPEC	1,830	-	-	262	-	-	-	-	-	-
	Algeria	-	-	-	-	-	-	-	-	-	-
	Angola	-	-	-	-	-	-	-	-	-	-
	Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
	Iran	-	-	-	-	-	-	-	-	-	-
	Iraq	-	-	-	-	-	-	-	-	-	-
	Kuwait	-	-	-	-	-	-	-	-	-	-
	Libya	-	-	-	-	-	-	-	-	-	-
	Nigeria	-	-	-	-	-	-	-	-	-	-
	Saudi Arabia	1,830	-	-	262	-	-	-	-	-	-
	United Arab Emirates	-	-	-	-	-	-	-	-	-	-
	Venezuela	-	-	-	-	-	-	-	-	-	-
	Non-OPEC	101,395	4,970	-	83	-	20	20	-	565	565
	Canada	101,395	4,970	-	83	-	15	15	-	565	565
	Ecuador	-	-	-	-	-	-	-	-	-	-
	Qatar	-	-	-	-	-	-	-	-	-	-
	Other	0	0	-	0	-	5	5	-	0	0
	Total	103,225	4,970	-	345	-	20	20	-	565	565
PAD District 5											
	OPEC	143,345	-	-	11,822	-	378	378	551	786	1,337
	Algeria	-	-	-	10,309	-	-	-	-	-	-
	Angola	1,808	-	-	-	-	-	-	-	-	-
	Congo (Brazzaville)	1,930	-	-	-	-	-	-	-	-	-
	Iran	-	-	-	-	-	-	-	-	-	-
	Iraq	68,707	-	-	-	-	-	-	-	-	-
	Kuwait	2,985	-	-	-	-	-	-	2	-	2
	Libya	8,435	-	-	-	-	-	-	-	-	-
	Nigeria	-	-	-	-	-	-	-	-	-	-
	Saudi Arabia	56,057	-	-	1,513	-	378	378	549	786	1,335
	United Arab Emirates	4,388	-	-	-	-	-	-	-	-	-
	Venezuela	-	-	-	-	-	-	-	-	-	-
	Non-OPEC	295,674	16,209	-	10,421	-	8,326	8,326	1,064	9,999	11,063
	Argentina	19,856	55	-	-	-	-	-	-	-	-
	Aruba	-	-	-	-	-	-	-	-	-	-
	Australia	700	-	-	-	-	-	-	-	-	-
	Brazil	49,372	-	-	-	-	-	-	-	-	-
	Brunei	-	-	-	-	-	-	-	-	-	-
Canada	95,208	15,777	-	797	-	1,522	1,522	-	386	386	
China	-	-	-	-	-	-	-	-	-	-	
Colombia	21,512	-	-	199	-	-	-	-	-	-	
Ecuador	51,974	-	-	927	-	-	-	-	-	-	
Finland	-	-	-	-	-	-	-	-	-	-	
Germany	-	-	-	60	-	-	-	-	28	28	
Indonesia	1,184	-	-	-	-	-	-	-	-	-	
Japan	-	-	-	640	-	474	474	-	1,492	1,492	
Korea, South	-	-	-	-	-	4,903	4,903	-	2,098	2,098	
Malaysia	-	-	-	350	-	-	-	-	-	-	
Mexico	15,700	-	-	3,802	-	-	-	-	-	-	
Netherlands	-	-	-	-	-	-	-	1,000	137	1,137	
Oman	-	-	-	-	-	-	-	-	-	-	
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	
Peru	1,390	-	-	-	-	-	-	-	-	-	
Qatar	-	-	-	-	-	8	8	8	12	20	
Singapore	-	-	-	70	-	-	-	-	-	-	
Sweden	-	-	-	-	-	-	-	-	172	172	
Taiwan	-	-	-	-	-	208	208	-	849	849	
United Kingdom	499	-	-	227	-	-	-	-	998	998	
Vietnam	-	-	-	-	-	-	-	-	-	-	
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	
Other	38,279	377	-	3,349	-	1,211	1,211	56	3,827	3,883	
Total	439,019	16,623	-	22,243	-	8,704	8,704	1,615	10,785	12,400	
Persian Gulf ⁴	132,137	-	-	1,513	-	386	386	559	798	1,357	

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	7	105	—	—	1,621	—	3	—	1,624	—	6
Canada	7	105	—	—	1,621	—	3	—	1,624	—	6
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	0	—	0	—	0	—	0
Total	7	105	—	—	1,621	—	3	—	1,624	—	6
	PAD District 5										
OPEC	—	—	10	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	10	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,194	1,070	6,244	12	6,492	1,260	1	190	7,943	18	24
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	1,194	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	772	—	—	4,968	—	1	—	4,969	—	11
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	10	399	—	—	—	399	—	—
Korea, South	—	298	—	—	1,125	1,260	—	—	2,385	18	13
Malaysia	—	—	—	1	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	94	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	6,150	1	0	0	0	0	0	0	0
Total	1,194	1,070	6,254	12	6,492	1,260	1	190	7,943	18	24
Persian Gulf ⁴	—	—	10	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	311	3	-	-	-	-	-	-
Canada	-	311	3	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	0	-	-	-	-	-	-
Total	-	311	3	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	35	35	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	35	35	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	31,795	23	-	1,861	1,432	3,293	349	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	436	23	-	603	1,149	1,752	-	-
China	-	1,777	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	5,531	-	-	-	-	-	-	-
Korea, South	-	21,230	-	-	-	-	-	13	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	93	93	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	287	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	975	-	-	-	-	-	336	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	1,559	0	-	1,258	190	1,448	0	-
Total	-	31,795	23	-	1,861	1,467	3,328	349	-
Persian Gulf ⁴	-	-	-	-	-	35	35	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2022
(Thousand Barrels) — Continued

Country of Origin								Daily Average			
	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Crude Oil	Products	Total	
OPEC	PAD District 4										
	—	—	—	—	—	262	2,092	5	1	6	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
Non-OPEC	—	—	951	—	11	8,656	110,051	278	24	302	
Canada	—	—	951	—	11	8,651	110,046	278	24	301	
Ecuador	—	—	—	—	—	—	—	—	—	—	
Qatar	—	—	—	—	—	—	—	—	—	—	
Other	—	—	0	—	0	5	5	0	0	1	
Total	—	—	951	—	11	8,918	112,143	283	24	307	
OPEC	PAD District 5										
	—	—	—	—	—	13,996	157,341	393	38	431	
	—	—	—	—	—	10,309	10,309	—	28	28	
	—	—	—	—	—	16	1,824	5	0	5	
	—	—	—	—	—	—	1,930	6	—	6	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	35	68,742	188	0	188	
	—	—	—	—	—	2	2,987	8	0	8	
	—	—	—	—	—	—	8,435	23	—	23	
	—	—	—	—	—	110	110	—	0	0	
	—	—	—	—	—	3,226	59,283	154	9	162	
	—	—	—	—	—	10	4,398	12	0	12	
	—	—	—	—	—	—	—	—	—	—	
	Non-OPEC	369	—	815	351	—	99,519	395,193	810	273	1,083
	Argentina	—	—	—	—	—	55	19,911	54	0	55
	Aruba	—	—	—	—	—	—	—	—	—	—
	Australia	—	—	—	—	—	—	700	2	—	2
	Brazil	—	—	—	—	—	1,194	50,566	135	3	139
	Brunei	—	—	—	—	—	—	—	—	—	—
	Canada	—	—	601	49	—	27,095	122,303	261	74	335
	China	142	—	—	—	—	1,919	1,919	—	5	5
	Colombia	—	—	—	—	—	199	21,711	59	1	59
	Ecuador	—	—	—	—	—	1,117	53,091	142	3	145
	Finland	—	—	—	—	—	—	—	—	—	—
	Germany	—	—	—	—	—	88	88	—	0	0
	Indonesia	—	—	—	—	—	—	1,184	3	—	3
	Japan	56	—	—	1	—	8,603	8,603	—	24	24
	Korea, South	—	—	—	84	—	31,042	31,042	—	85	85
	Malaysia	1	—	—	—	—	352	352	—	1	1
	Mexico	—	—	—	—	—	3,895	19,595	43	11	54
Netherlands	—	—	—	—	—	1,231	1,231	—	3	3	
Oman	—	—	—	—	—	—	—	—	—	—	
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	
Peru	—	—	—	—	—	—	1,390	4	—	4	
Qatar	—	—	—	217	—	245	245	—	1	1	
Singapore	—	—	—	—	—	6,508	6,508	—	18	18	
Sweden	—	—	—	—	—	172	172	—	0	0	
Taiwan	170	—	—	—	—	2,538	2,538	—	7	7	
United Kingdom	—	—	—	—	—	1,225	1,724	1	3	5	
Vietnam	—	—	—	—	—	—	—	—	—	—	
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	
Other	0	—	214	0	—	12,041	50,320	106	34	138	
Total	369	—	815	351	—	113,515	552,534	1,203	311	1,514	
Persian Gulf ⁴	—	—	—	217	—	3,518	135,655	362	10	372	

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, December 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	1,383	2,173	114,896	—	980	119,433	3,853
Hydrocarbon Gas Liquids	6,163	7,407	63,315	9	1,576	78,471	2,531
Natural Gas Liquids	6,163	7,407	63,315	9	1,576	78,471	2,531
Ethane	2,257	2,161	10,189	—	—	14,607	471
Propane	2,880	92	41,750	0	1,105	45,828	1,478
Normal Butane	985	152	11,142	—	385	12,664	409
Isobutane	1	3	193	—	1	198	6
Natural Gasoline	40	4,998	42	9	85	5,174	167
Other Liquids	330	3,119	8,786	6	302	12,543	405
Hydrogen/Biofuels/Other Hydrocarbons	309	978	757	—	132	2,176	70
Hydrogen	—	—	—	—	—	—	—
Biofuels	309	978	757	—	132	2,176	70
Fuel Ethanol	80	940	593	—	102	1,714	55
Biodiesel	229	39	164	—	29	462	15
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	17	2,101	4,646	—	21	6,785	219
Naphthas and Lighter	8	2,091	4,287	—	4	6,390	206
Kerosene and Light Gas Oils	10	10	359	—	17	396	13
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	4	39	3,384	6	149	3,582	116
Reformulated	0	—	2	—	1	2	0
Conventional	4	39	3,382	6	149	3,580	115
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	1,718	677	90,563	17	11,384	104,359	3,366
Finished Motor Gasoline	69	239	27,501	—	2,020	29,830	962
Reformulated	—	—	—	—	—	—	—
Conventional	69	239	27,501	—	2,020	29,830	962
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	386	15	3,713	—	1,175	5,288	171
Kerosene	1	0	484	—	—	486	16
Distillate Fuel Oil	163	118	40,301	—	3,485	44,066	1,421
15 ppm sulfur and under	11	2	34,588	—	2,884	37,485	1,209
Greater than 15 ppm to 500 ppm sulfur	150	31	2,834	—	423	3,437	111
Greater than 500 ppm sulfur	1	86	2,879	—	178	3,144	101
Residual Fuel Oil	71	—	3,447	—	866	4,384	141
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	178	150	1,382	16	71	1,797	58
Waxes	50	28	17	0	4	99	3
Petroleum Coke	656	47	13,136	—	3,742	17,581	567
Asphalt and Road Oil	129	78	555	1	21	784	25
Miscellaneous Products	15	1	27	—	1	44	1
Total	9,594	13,375	277,562	32	14,243	314,806	10,155

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-December 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	18,524	24,794	1,269,781	0	2,528	1,315,627	3,604
Hydrocarbon Gas Liquids	91,282	88,000	674,004	405	18,752	872,443	2,390
Natural Gas Liquids	91,282	88,000	674,004	405	18,752	872,443	2,390
Ethane	26,199	25,983	111,073	1	7	163,263	447
Propane	49,016	1,674	442,426	10	9,676	502,802	1,378
Normal Butane	15,293	1,492	117,343	26	8,711	142,864	391
Isobutane	8	30	1,827	—	25	1,891	5
Natural Gasoline	766	58,821	1,335	368	333	61,624	169
Other Liquids	3,084	39,462	117,700	145	8,566	168,957	463
Hydrogen/Biofuels/Other Hydrocarbons	2,101	11,739	20,028	121	5,328	39,317	108
Hydrogen	—	—	—	—	—	—	—
Biofuels	2,101	11,739	20,028	121	5,328	39,317	108
Fuel Ethanol	1,566	9,366	18,589	2	2,641	32,165	88
Biodiesel	534	2,374	1,439	119	2,686	7,152	20
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	591	26,327	76,168	2	1,339	104,428	286
Naphthas and Lighter	442	26,182	72,204	1	1,168	99,997	274
Kerosene and Light Gas Oils	149	146	3,964	1	171	4,431	12
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	392	1,395	21,505	21	1,899	25,212	69
Reformulated	9	—	13	—	17	39	0
Conventional	383	1,395	21,492	21	1,883	25,173	69
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	24,164	13,152	1,009,306	186	91,783	1,138,590	3,119
Finished Motor Gasoline	844	4,224	306,778	9	11,081	322,935	885
Reformulated	—	—	—	—	—	—	—
Conventional	844	4,224	306,778	9	11,081	322,935	885
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	709	233	56,497	1	7,893	65,333	179
Kerosene	119	9	2,646	—	207	2,982	8
Distillate Fuel Oil	8,068	1,771	425,842	1	24,992	460,676	1,262
15 ppm sulfur and under	6,077	9	365,683	0	19,791	391,560	1,073
Greater than 15 ppm to 500 ppm sulfur	1,540	404	29,265	1	2,070	33,280	91
Greater than 500 ppm sulfur	452	1,359	30,894	—	3,132	35,836	98
Residual Fuel Oil	2,357	11	30,191	—	6,761	39,319	108
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,834	2,269	26,237	152	2,624	34,115	93
Waxes	917	428	257	1	51	1,654	5
Petroleum Coke	7,034	3,381	156,716	0	37,839	204,970	562
Asphalt and Road Oil	1,065	813	3,731	22	328	5,959	16
Miscellaneous Products	216	14	412	0	7	649	2
Total	137,054	165,407	3,070,791	736	121,630	3,495,618	9,577

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	0	—	0	—	250	250	—	—	—
Australia	—	550	—	2	—	—	—	—	—	—
Bahamas	—	28	—	—	—	97	97	—	1,621	1,621
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	2,576	—	149	—	—	—	—	—	—
Belize	—	25	—	—	—	50	50	—	—	—
Brazil	1,181	624	—	974	—	1,311	1,311	0	—	0
Canada	9,134	7,492	—	2,108	—	491	491	—	1,057	1,057
Cayman Islands	—	—	—	—	—	27	27	—	—	—
Chile	—	947	—	20	—	1,100	1,100	—	—	—
China	7,432	10,065	—	12	—	—	—	—	—	—
Colombia	549	89	—	681	—	745	745	—	—	—
Costa Rica	—	94	—	2	—	593	593	—	—	—
Denmark	2,799	—	—	—	—	—	—	—	—	—
Dominican Republic	484	1,168	—	45	—	896	896	0	—	0
Ecuador	—	1,074	—	12	—	1,197	1,197	—	—	—
Egypt	—	1,893	—	—	—	—	—	—	—	—
El Salvador	—	480	—	0	—	669	669	—	—	—
Finland	75	—	—	—	—	—	—	—	—	—
France	6,717	1,009	—	0	—	—	—	—	—	—
Germany	1,235	—	—	5	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	192	—	—	—	—	—	—	—	—
Guatemala	—	208	—	5	—	1,900	1,900	—	—	—
Honduras	—	648	—	—	—	630	630	—	0	0
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	7,376	2,915	—	17	—	0	0	—	—	—
Indonesia	—	2,702	—	0	—	—	—	—	—	—
Ireland	600	—	—	—	—	—	—	—	—	—
Israel	—	1	—	—	—	—	—	—	—	—
Italy	4,602	591	—	0	—	—	—	—	—	—
Jamaica	—	105	—	0	—	91	91	—	—	—
Japan	—	16,577	—	333	—	0	0	—	—	—
Korea, South	11,506	4,066	—	444	—	0	0	0	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	6,806	—	632	—	14,964	14,964	2	901	903
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,340	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	16,200	1,621	—	658	—	325	325	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	272	—	—	—	—	80	80	—	—	—
Nigeria	—	240	—	0	—	269	269	—	—	—
Norway	4,078	970	—	110	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,690	378	—	0	—	872	872	—	0	0
Peru	800	519	—	0	—	937	937	—	—	—
Philippines	—	—	—	0	—	436	436	—	—	—
Portugal	—	1,100	—	—	—	—	—	—	—	—
Puerto Rico	—	1	—	1	—	4	4	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	7,500	2,343	—	1	—	456	456	—	—	—
South Africa	—	—	—	1	—	—	—	—	—	—
Spain	4,530	648	—	21	—	—	—	—	—	—
Switzerland	—	—	—	0	—	—	—	—	—	—
Taiwan	11,191	24	—	1	—	1	1	—	—	—
Thailand	824	—	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	1	—	—	—	327	327	—	—	—
Turkiye	—	1,735	—	—	—	—	—	—	—	—
United Arab Emirates	—	0	—	—	—	—	—	—	—	—
United Kingdom	15,291	1,068	—	10	—	0	0	—	—	—
Venezuela	—	—	—	450	—	1	1	—	—	—
Other	3,367	3,558	—	90	—	1,111	1,111	—	1	1
Total	119,433	78,471	—	6,785	—	29,830	29,830	2	3,580	3,582

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	0	0	NA	NA	1,163	300	—	—	1,463	—	—
Australia	0	—	NA	NA	1	—	—	—	1	—	—
Bahamas	—	—	NA	NA	368	—	275	—	643	—	—
Bahrain	—	—	NA	NA	—	—	—	—	—	—	—
Belgium	0	—	NA	NA	595	—	—	—	595	—	—
Belize	—	—	NA	NA	3	—	—	—	3	—	—
Brazil	0	0	NA	NA	4,473	120	—	—	4,593	459	—
Canada	1,105	442	NA	NA	3	753	89	—	845	1	—
Cayman Islands	0	—	NA	NA	148	—	—	—	148	—	—
Chile	0	—	NA	NA	3,061	—	—	—	3,061	—	—
China	5	—	NA	NA	1	—	—	—	1	—	—
Colombia	24	—	NA	NA	939	—	—	—	939	—	—
Costa Rica	0	—	NA	NA	579	—	—	—	579	0	—
Denmark	—	—	NA	NA	523	—	—	—	523	—	—
Dominican Republic	3	—	NA	NA	438	200	571	—	1,210	0	—
Ecuador	0	—	NA	NA	2,361	130	—	—	2,491	0	—
Egypt	0	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	0	NA	NA	230	192	—	—	422	—	—
Finland	—	—	NA	NA	—	—	—	—	—	—	—
France	0	—	NA	NA	1,257	—	—	—	1,257	—	—
Germany	0	1	NA	NA	0	—	—	—	0	—	—
Ghana	—	—	NA	NA	—	—	—	—	—	—	—
Gibraltar	—	—	NA	NA	336	—	—	—	336	—	—
Greece	0	—	NA	NA	—	—	—	—	—	—	—
Guatemala	0	—	NA	NA	1,476	286	—	—	1,762	0	—
Honduras	—	—	NA	NA	485	277	—	—	762	0	—
Hong Kong	—	—	NA	NA	—	—	—	—	—	—	—
India	1	—	NA	NA	0	—	—	—	0	0	—
Indonesia	0	0	NA	NA	—	—	—	—	—	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	0	—	NA	NA	—	—	—	—	—	—	—
Italy	—	—	NA	NA	—	—	—	—	—	—	—
Jamaica	98	—	NA	NA	210	—	—	—	210	0	—
Japan	0	—	NA	NA	0	—	—	—	0	—	—
Korea, South	93	—	NA	NA	0	—	—	—	0	—	—
Lebanon	—	—	NA	NA	—	—	—	—	—	—	—
Mexico	94	—	NA	NA	8,930	206	2	—	9,138	2	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	—	—	NA	NA	1	—	—	—	1	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	0	—	NA	NA	2,798	90	100	—	2,988	—	—
New Zealand	—	—	NA	NA	—	—	—	—	—	—	—
Nicaragua	—	—	NA	NA	114	163	—	—	277	19	—
Nigeria	—	—	NA	NA	—	—	—	—	—	—	—
Norway	—	—	NA	NA	—	—	—	—	—	—	—
Pakistan	—	—	NA	NA	—	—	—	—	—	—	—
Panama	—	—	NA	NA	1,970	433	367	—	2,770	—	—
Peru	15	18	NA	NA	2,213	—	—	—	2,213	0	—
Philippines	210	—	NA	NA	—	—	—	—	—	—	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	5	0	NA	NA	3	—	—	—	3	—	—
Romania	—	—	NA	NA	—	—	—	—	—	—	—
Saudi Arabia	—	—	NA	NA	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	0	—	NA	NA	525	—	175	—	700	1	—
South Africa	—	—	NA	NA	—	—	—	—	—	—	—
Spain	—	—	NA	NA	0	—	—	—	0	—	—
Switzerland	3	—	NA	NA	80	—	—	—	80	—	—
Taiwan	0	—	NA	NA	0	—	—	—	0	—	—
Thailand	—	—	NA	NA	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	NA	NA	—	125	—	—	125	—	—
Turkiye	—	0	NA	NA	0	—	—	—	0	—	—
United Arab Emirates	—	—	NA	NA	—	—	—	—	—	2	—
United Kingdom	0	—	NA	NA	1,574	—	—	—	1,574	1	—
Venezuela	0	—	NA	NA	—	—	—	—	—	—	—
Other	58	1	NA	NA	627	162	1,565	—	2,353	1	—
Total	1,714	462	NA	NA	37,485	3,437	3,144	—	44,066	486	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	—	—	—	—	—	0	0
Australia	—	—	—	—	—	—	1	165
Bahamas	—	78	—	753	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	111
Belize	—	—	—	—	—	—	—	—
Brazil	—	100	—	—	—	—	0	981
Canada	—	791	—	699	—	—	72	160
Cayman Islands	—	12	—	—	—	—	—	—
Chile	—	468	—	288	—	—	0	—
China	—	—	—	0	—	—	4	3,679
Colombia	—	—	—	—	—	—	0	1
Costa Rica	—	160	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	171
Dominican Republic	—	127	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	0	193
Egypt	—	—	—	—	—	—	—	83
El Salvador	—	38	—	—	—	—	0	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	0	—
Germany	—	—	—	—	—	—	0	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	66
Guatemala	—	62	—	—	—	—	0	207
Honduras	—	60	—	0	—	—	—	237
Hong Kong	—	—	—	—	—	—	0	—
India	—	—	—	139	—	—	0	2,439
Indonesia	—	—	—	—	—	—	0	—
Ireland	—	—	—	—	—	—	—	289
Israel	—	—	—	—	—	—	0	—
Italy	—	—	—	—	—	—	0	734
Jamaica	—	80	—	100	—	—	0	1
Japan	—	—	—	0	—	—	1	1,943
Korea, South	—	—	—	271	—	—	0	275
Lebanon	—	—	—	—	—	—	—	—
Mexico	—	2,236	—	379	—	—	14	1,102
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	431
Mozambique	—	—	—	—	—	—	—	69
Netherlands	—	—	—	—	—	—	1	422
New Zealand	—	—	—	—	—	—	0	—
Nicaragua	—	0	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	44
Pakistan	—	—	—	—	—	—	—	—
Panama	—	340	—	825	—	—	—	193
Peru	—	86	—	0	—	—	0	0
Philippines	—	—	—	—	—	—	0	551
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	—	—	—	0	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	—	—	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	385	—	257	—	—	0	0
South Africa	—	—	—	—	—	—	1	69
Spain	—	—	—	—	—	—	1	581
Switzerland	—	—	—	—	—	—	0	—
Taiwan	—	0	—	—	—	—	0	—
Thailand	—	—	—	—	—	—	0	0
Trinidad and Tobago	—	120	—	—	—	—	—	—
Turkiye	—	—	—	—	—	—	—	810
United Arab Emirates	—	—	—	106	—	—	0	138
United Kingdom	—	—	—	—	—	—	0	0
Venezuela	—	0	—	—	—	—	—	—
Other	—	144	—	567	—	—	4	1,436
Total	—	5,288	—	4,384	—	—	99	17,581

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	0	55	—	1,769	1,769	—	57	57
Australia	38	4	0	762	762	—	25	25
Bahamas	1	7	1	3,228	3,228	—	104	104
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	77	1	3,509	3,509	—	113	113
Belize	—	1	—	79	79	—	3	3
Brazil	72	208	2	9,324	10,505	38	301	339
Canada	135	237	6	15,642	24,776	295	505	799
Cayman Islands	1	1	—	189	189	—	6	6
Chile	56	87	—	6,028	6,028	—	194	194
China	2	8	0	13,777	21,209	240	444	684
Colombia	0	123	0	2,601	3,150	18	84	102
Costa Rica	38	10	0	1,476	1,476	—	48	48
Denmark	—	0	—	694	3,494	90	22	113
Dominican Republic	42	15	—	3,506	3,990	16	113	129
Ecuador	0	80	—	5,047	5,047	—	163	163
Egypt	—	1	—	1,976	1,976	—	64	64
El Salvador	—	5	—	1,614	1,614	—	52	52
Finland	—	0	—	0	75	2	0	2
France	—	0	0	2,266	8,984	217	73	290
Germany	1	1	—	8	1,244	40	0	40
Ghana	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	336	336	—	11	11
Greece	—	1	—	258	258	—	8	8
Guatemala	—	7	—	4,151	4,151	—	134	134
Honduras	33	8	0	2,380	2,380	—	77	77
Hong Kong	—	0	—	0	0	—	0	0
India	0	13	0	5,525	12,901	238	178	416
Indonesia	—	1	—	2,704	2,704	—	87	87
Ireland	—	0	—	289	889	19	9	29
Israel	—	1	0	2	2	—	0	0
Italy	—	0	0	1,325	5,927	148	43	191
Jamaica	0	4	—	689	689	—	22	22
Japan	1	16	2	18,873	18,873	—	609	609
Korea, South	1	13	0	5,165	16,671	371	167	538
Lebanon	—	0	—	0	0	—	0	0
Mexico	149	510	23	36,952	36,952	—	1,192	1,192
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	0	—	1,772	1,772	—	57	57
Mozambique	—	0	—	69	69	—	2	2
Netherlands	0	18	0	6,033	22,233	523	195	717
New Zealand	194	1	—	195	195	—	6	6
Nicaragua	—	3	—	380	652	9	12	21
Nigeria	—	1	—	509	509	—	16	16
Norway	—	0	—	1,123	5,201	132	36	168
Pakistan	—	0	—	0	0	—	0	0
Panama	15	13	—	5,406	7,096	55	174	229
Peru	0	72	5	3,865	4,665	26	125	150
Philippines	—	1	0	1,199	1,199	—	39	39
Portugal	—	0	—	1,100	1,100	—	35	35
Puerto Rico	0	8	—	21	21	—	1	1
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	3	—	4	4	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	0	4	0	4,148	11,648	242	134	376
South Africa	—	42	—	112	112	—	4	4
Spain	—	2	—	1,254	5,784	146	40	187
Switzerland	—	1	—	83	83	—	3	3
Taiwan	0	2	0	28	11,219	361	1	362
Thailand	1	3	0	5	829	27	0	27
Trinidad and Tobago	—	27	0	599	599	—	19	19
Türkiye	—	2	—	2,547	2,547	—	82	82
United Arab Emirates	—	28	—	274	274	—	9	9
United Kingdom	0	2	—	2,655	17,947	493	86	579
Venezuela	—	8	—	458	458	—	15	15
Other	4	62	4	9,390	12,753	107	303	410
Total	784	1,797	44	195,373	314,806	3,853	6,302	10,155

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	266	—	1,655	—	1,342	1,342	—	0	0
Australia	8,083	3,417	—	27	—	0	0	4	0	4
Bahamas	1,192	398	—	217	—	5,660	5,660	0	3,918	3,918
Bahrain	—	—	—	0	—	1	1	0	—	0
Belgium	965	19,030	—	2,982	—	0	0	—	0	0
Belize	—	238	—	—	—	273	273	—	—	—
Brazil	22,674	14,621	—	19,512	—	13,795	13,795	0	—	0
Canada	121,469	89,748	—	26,420	—	7,573	7,573	—	10,322	10,322
Cayman Islands	—	35	—	0	—	251	251	0	1	1
Chile	2,090	15,090	—	1,000	—	16,608	16,608	1	271	271
China	83,118	109,537	—	49	—	1	1	0	0	0
Colombia	9,322	1,107	—	12,895	—	14,783	14,783	—	0	0
Costa Rica	—	2,242	—	145	—	7,824	7,824	0	0	0
Denmark	17,103	—	—	184	—	0	0	0	—	0
Dominican Republic	7,927	14,854	—	58	—	6,012	6,012	1	201	202
Ecuador	—	13,147	—	3,413	—	7,030	7,030	—	9	9
Egypt	—	14,714	—	0	—	—	—	—	—	—
El Salvador	—	3,622	—	2	—	6,492	6,492	—	—	—
Finland	3,245	6,514	—	518	—	—	—	—	—	—
France	61,727	8,997	—	517	—	701	701	—	0	0
Germany	39,393	216	—	38	—	0	0	0	—	0
Ghana	—	1,686	—	0	—	—	—	—	—	—
Gibraltar	—	742	—	—	—	—	—	—	—	—
Greece	—	441	—	—	—	1	1	—	0	0
Guatemala	—	3,336	—	43	—	16,447	16,447	0	108	108
Honduras	—	6,365	—	38	—	6,011	6,011	—	1	1
Hong Kong	—	—	—	0	—	0	0	—	—	—
India	117,934	40,762	—	81	—	0	0	0	0	0
Indonesia	2,012	30,037	—	4	—	—	—	—	—	—
Ireland	8,843	—	—	—	—	1	1	—	—	—
Israel	—	106	—	1	—	0	0	—	0	0
Italy	59,124	1,684	—	38	—	—	—	—	—	—
Jamaica	—	536	—	0	—	1,931	1,931	0	1	1
Japan	10,992	150,952	—	5,290	—	4	4	11	—	11
Korea, South	135,404	50,527	—	985	—	511	511	4	5	9
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	73,651	—	6,375	—	176,161	176,161	8	8,978	8,986
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	17,466	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	134,443	30,419	—	11,387	—	329	329	—	—	—
New Zealand	—	2	—	0	—	0	0	—	—	—
Nicaragua	3,243	50	—	—	—	496	496	—	—	—
Nigeria	—	4,188	—	1	—	2,542	2,542	—	—	—
Norway	10,887	13,332	—	1,055	—	—	—	—	—	—
Pakistan	—	—	—	13	—	1	1	—	0	0
Panama	7,672	3,173	—	4	—	8,425	8,425	1	304	305
Peru	5,727	4,535	—	938	—	12,180	12,180	—	710	710
Philippines	—	0	—	3	—	436	436	—	—	—
Portugal	4,333	8,437	—	—	—	—	—	—	—	—
Puerto Rico	—	73	—	17	—	208	208	0	1	1
Romania	—	62	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	2,312	—	2	2	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	114,445	22,730	—	838	—	458	458	—	0	0
South Africa	—	4,640	—	27	—	631	631	0	—	0
Spain	58,588	13,417	—	57	—	736	736	—	—	—
Switzerland	1,535	3,339	—	843	—	—	—	—	310	310
Taiwan	70,307	623	—	2,825	—	4	4	0	0	0
Thailand	19,768	0	—	16	—	0	0	—	—	—
Trinidad and Tobago	—	9	—	2	—	1,213	1,213	—	—	—
Turkiye	—	16,638	—	0	—	0	0	—	0	0
United Arab Emirates	—	0	—	3	—	10	10	1	0	1
United Kingdom	126,617	16,092	—	455	—	1,123	1,123	1	1	1
Venezuela	—	3	—	457	—	5	5	1	0	1
Other	45,445	34,596	—	688	—	4,723	4,723	6	32	40
Total	1,315,627	872,443	—	104,428	—	322,935	322,935	39	25,173	25,212

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	1	0	NA	NA	16,353	835	2,138	—	19,326	0	—
Australia	80	0	NA	NA	6	—	2	—	8	0	—
Bahamas	2	0	NA	NA	5,173	626	3,172	—	8,971	0	—
Bahrain	0	—	NA	NA	—	—	—	—	—	0	—
Belgium	1	0	NA	NA	2,664	—	488	—	3,151	—	—
Belize	—	—	NA	NA	166	550	—	—	716	—	—
Brazil	1,417	0	NA	NA	49,466	1,987	1,715	—	53,168	1,399	—
Canada	11,925	4,515	NA	NA	264	2,955	1,754	—	4,974	472	—
Cayman Islands	0	—	NA	NA	1,350	185	—	—	1,535	—	—
Chile	174	1	NA	NA	51,425	593	300	—	52,318	0	—
China	16	0	NA	NA	463	150	1	—	614	0	—
Colombia	321	—	NA	NA	12,497	136	—	—	12,633	19	—
Costa Rica	4	—	NA	NA	7,856	21	0	—	7,877	1	—
Denmark	—	—	NA	NA	1,280	—	—	—	1,280	—	—
Dominican Republic	14	—	NA	NA	3,494	235	4,028	—	7,757	101	—
Ecuador	0	—	NA	NA	16,569	1,557	406	—	18,532	2	—
Egypt	118	—	NA	NA	—	—	—	—	—	—	—
El Salvador	0	0	NA	NA	2,460	1,527	957	—	4,944	0	—
Finland	52	—	NA	NA	—	—	—	—	—	—	—
France	63	—	NA	NA	2,764	213	—	—	2,977	0	—
Germany	2	27	NA	NA	1	—	—	—	1	—	—
Ghana	—	—	NA	NA	626	—	—	—	626	—	—
Gibraltar	31	—	NA	NA	616	—	—	—	616	—	—
Greece	230	—	NA	NA	—	—	—	—	—	—	—
Guatemala	1	—	NA	NA	8,641	3,313	1,835	—	13,789	2	—
Honduras	0	—	NA	NA	3,822	3,482	1,143	—	8,447	151	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	2,112	0	NA	NA	270	1	3	—	273	0	—
Indonesia	1	1	NA	NA	4	—	—	—	4	—	—
Ireland	1	—	NA	NA	—	—	—	—	—	—	—
Israel	8	—	NA	NA	0	—	—	—	0	1	—
Italy	0	0	NA	NA	—	—	—	—	—	—	—
Jamaica	568	—	NA	NA	1,506	561	871	—	2,937	0	—
Japan	4	—	NA	NA	2	—	—	—	2	1	—
Korea, South	3,724	0	NA	NA	15	165	—	—	180	0	—
Lebanon	1	—	NA	NA	0	—	—	—	0	—	—
Mexico	1,661	3	NA	NA	104,934	1,281	559	—	106,774	22	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	0	—	NA	NA	2	31	—	—	33	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	2,357	205	NA	NA	10,228	684	2,022	—	12,934	0	—
New Zealand	0	—	NA	NA	0	—	—	—	0	0	—
Nicaragua	0	—	NA	NA	912	965	879	—	2,756	461	—
Nigeria	682	—	NA	NA	4	121	—	—	125	2	—
Norway	66	45	NA	NA	317	—	—	—	317	—	—
Pakistan	—	0	NA	NA	—	—	—	—	—	—	—
Panama	0	—	NA	NA	19,557	2,926	3,332	—	25,816	9	—
Peru	1,094	540	NA	NA	32,797	1,436	50	—	34,282	0	—
Philippines	908	—	NA	NA	—	—	—	—	—	0	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	58	0	NA	NA	1,654	150	0	—	1,804	1	—
Romania	—	—	NA	NA	1	—	—	—	1	—	—
Saudi Arabia	439	0	NA	NA	9	—	—	—	9	3	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	1,194	1,813	NA	NA	3,127	165	755	—	4,047	2	—
South Africa	0	—	NA	NA	1	—	—	—	1	—	—
Spain	72	—	NA	NA	750	—	—	—	750	0	—
Switzerland	51	0	NA	NA	481	275	—	—	756	—	—
Taiwan	4	1	NA	NA	2	—	—	—	2	2	—
Thailand	0	—	NA	NA	0	—	—	—	0	—	—
Trinidad and Tobago	3	—	NA	NA	2,111	125	2,699	—	4,935	—	—
Turkiye	24	0	NA	NA	304	—	—	—	304	—	—
United Arab Emirates	346	0	NA	NA	1	—	—	—	1	6	—
United Kingdom	1,598	0	NA	NA	11,257	600	266	—	12,123	322	—
Venezuela	0	—	NA	NA	7	—	—	—	7	—	—
Other	737	1	NA	NA	13,351	5,429	6,461	—	25,243	3	—
Total	32,165	7,152	NA	NA	391,560	33,280	35,836	—	460,676	2,982	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	356	—	806	—	—	5	452
Australia	—	0	—	0	—	—	14	2,512
Bahamas	—	1,338	—	5,816	—	—	—	—
Bahrain	—	—	—	—	—	—	0	116
Belgium	—	—	—	434	—	—	0	1,307
Belize	—	75	—	—	—	—	0	—
Brazil	—	2,052	—	6	—	—	8	19,115
Canada	—	9,972	—	4,642	—	—	1,214	6,938
Cayman Islands	—	458	—	0	—	—	0	—
Chile	—	6,643	—	2,071	—	—	6	464
China	—	0	—	28	—	—	39	37,477
Colombia	—	1,049	—	201	—	—	3	60
Costa Rica	—	1,890	—	185	—	—	1	751
Denmark	—	—	—	—	—	—	0	590
Dominican Republic	—	2,353	—	1,007	—	—	5	2,022
Ecuador	—	9	—	2	—	—	1	1,464
Egypt	—	—	—	—	—	—	—	2,604
El Salvador	—	661	—	0	—	—	1	520
Finland	—	—	—	—	—	—	0	278
France	—	—	—	0	—	—	2	917
Germany	—	—	—	2	—	—	24	359
Ghana	—	—	—	—	—	—	—	90
Gibraltar	—	—	—	137	—	—	—	—
Greece	—	—	—	0	—	—	—	3,400
Guatemala	—	739	—	20	—	—	2	3,896
Honduras	—	757	—	271	—	—	1	2,758
Hong Kong	—	—	—	—	—	—	1	0
India	—	72	—	212	—	—	22	23,154
Indonesia	—	—	—	—	—	—	1	55
Ireland	—	—	—	—	—	—	0	1,216
Israel	—	1,629	—	0	—	—	0	1,326
Italy	—	—	—	—	—	—	1	6,977
Jamaica	—	1,227	—	101	—	—	0	151
Japan	—	0	—	3	—	—	8	18,370
Korea, South	—	0	—	3,200	—	—	4	992
Lebanon	—	0	—	0	—	—	—	362
Mexico	—	19,324	—	2,824	—	—	202	19,838
Montenegro	—	—	—	—	—	—	—	110
Morocco	—	—	—	—	—	—	—	4,982
Mozambique	—	—	—	—	—	—	—	936
Netherlands	—	976	—	1,692	—	—	44	3,697
New Zealand	—	4	—	—	—	—	0	385
Nicaragua	—	147	—	115	—	—	0	413
Nigeria	—	0	—	—	—	—	0	187
Norway	—	—	—	—	—	—	0	1,019
Pakistan	—	—	—	—	—	—	0	275
Panama	—	5,056	—	7,707	—	—	0	457
Peru	—	2,898	—	64	—	—	1	235
Philippines	—	—	—	0	—	—	1	1,934
Portugal	—	—	—	—	—	—	0	875
Puerto Rico	—	621	—	3	—	—	0	—
Romania	—	—	—	—	—	—	0	281
Saudi Arabia	—	4	—	150	—	—	1	140
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	520	—	1,841	—	—	0	303
South Africa	—	—	—	63	—	—	2	727
Spain	—	—	—	75	—	—	23	5,546
Switzerland	—	—	—	—	—	—	0	—
Taiwan	—	0	—	0	—	—	1	0
Thailand	—	—	—	0	—	—	1	719
Trinidad and Tobago	—	1,031	—	45	—	—	0	1
Türkiye	—	—	—	2	—	—	1	10,049
United Arab Emirates	—	0	—	112	—	—	0	1,492
United Kingdom	—	275	—	1	—	—	2	1,054
Venezuela	—	1	—	—	—	—	0	—
Other	—	3,196	—	5,481	—	—	12	8,622
Total	—	65,333	—	39,319	—	—	1,654	204,970

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	281	558	1	25,049	25,049	—	69	69
Australia	41	77	2	6,183	14,267	22	17	39
Bahamas	21	34	4	26,381	27,573	3	72	76
Bahrain	—	1	—	118	118	—	0	0
Belgium	2	3,971	9	30,888	31,853	3	85	87
Belize	0	13	—	1,315	1,315	—	4	4
Brazil	72	3,419	13	128,597	151,272	62	352	414
Canada	1,733	3,604	83	184,135	305,604	333	504	837
Cayman Islands	11	13	0	2,305	2,305	—	6	6
Chile	520	1,011	0	96,176	98,266	6	263	269
China	11	123	9	147,903	231,021	228	405	633
Colombia	4	2,900	5	45,979	55,300	26	126	152
Costa Rica	355	176	1	21,451	21,451	—	59	59
Denmark	—	1	—	2,054	19,157	47	6	52
Dominican Republic	268	327	1	34,981	42,908	22	96	118
Ecuador	1	692	26	44,327	44,327	—	121	121
Egypt	—	5	—	17,442	17,442	—	48	48
El Salvador	0	286	0	16,529	16,529	—	45	45
Finland	—	503	—	7,865	11,111	9	22	30
France	—	761	0	14,935	76,662	169	41	210
Germany	35	30	4	738	40,131	108	2	110
Ghana	—	6	—	2,407	2,407	—	7	7
Gibraltar	—	—	—	1,526	1,526	—	4	4
Greece	—	2	—	4,074	4,074	—	11	11
Guatemala	0	204	0	38,588	38,588	—	106	106
Honduras	161	152	0	25,112	25,112	—	69	69
Hong Kong	—	10	1	14	14	—	0	0
India	3	880	4	67,577	185,511	323	185	508
Indonesia	7	24	0	30,134	32,146	6	83	88
Ireland	—	0	1	1,219	10,062	24	3	28
Israel	0	366	1	3,438	3,438	—	9	9
Italy	0	8	1	8,709	67,834	162	24	186
Jamaica	0	69	1	7,521	7,521	—	21	21
Japan	12	142	62	174,862	185,854	30	479	509
Korea, South	9	86	5	60,232	195,636	371	165	536
Lebanon	—	4	—	368	368	—	1	1
Mexico	1,209	8,340	359	425,730	425,730	—	1,166	1,166
Montenegro	—	—	—	110	110	—	0	0
Morocco	—	1	—	22,481	22,481	—	62	62
Mozambique	—	2	—	938	938	—	3	3
Netherlands	7	273	4	64,326	198,769	368	176	545
New Zealand	543	8	—	944	944	—	3	3
Nicaragua	—	58	—	4,496	7,739	9	12	21
Nigeria	1	844	—	8,571	8,571	—	23	23
Norway	—	2	0	15,836	26,723	30	43	73
Pakistan	0	1	0	291	291	—	1	1
Panama	240	279	0	51,473	59,145	21	141	162
Peru	0	858	7	58,342	64,070	16	160	176
Philippines	—	15	2	3,301	3,301	—	9	9
Portugal	—	1	—	9,313	13,646	12	26	37
Puerto Rico	217	198	0	3,201	3,201	—	9	9
Romania	—	2	—	346	346	—	1	1
Saudi Arabia	0	72	0	3,133	3,133	—	9	9
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	119	0	33,867	148,312	314	93	406
South Africa	0	448	—	6,538	6,538	—	18	18
Spain	0	24	—	20,699	79,288	161	57	217
Switzerland	1	36	0	5,336	6,871	4	15	19
Taiwan	3	55	1	3,521	73,828	193	10	202
Thailand	2	93	3	833	20,601	54	2	56
Trinidad and Tobago	—	111	0	7,348	7,348	—	20	20
Turkiye	1	259	—	27,277	27,277	—	75	75
United Arab Emirates	7	443	0	2,423	2,423	—	7	7
United Kingdom	1	195	1	33,244	159,862	347	91	438
Venezuela	—	88	0	562	562	—	2	2
Other	179	832	38	84,379	129,818	121	229	355
Total	5,959	34,115	649	2,179,991	3,495,618	3,604	5,973	9,577

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,060	-8	-	157	-	-9	-9	-	29	29
Algeria	5	-	-	38	-	0	0	-	-	-
Angola	4	-	-	2	-	-	-	-	8	8
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	276	0	-	49	-	-	-	-	-	-
Kuwait	47	0	-	-	-	-	-	-	-	-
Libya	93	-	-	0	-	0	0	-	-	-
Nigeria	134	-8	-	0	-	-9	-9	-	-	-
Saudi Arabia	500	-	-	83	-	-	-	-	20	20
United Arab Emirates	-	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-15	-	0	0	-	-	-
Non-OPEC	1,077	-2,346	16	77	-	-855	-855	179	219	399
Argentina	60	0	-	0	-	-8	-8	-	10	10
Aruba	-	0	-	-	-	-2	-2	-	-	-
Australia	-	-18	-	0	-	-	-	-	-	-
Bahamas	-	-1	-	-	-	38	38	17	-2	15
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-83	-	15	-	0	0	-	8	8
Brazil	110	-20	-	-18	-	-42	-42	0	1	1
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,239	-66	16	-56	-	1	1	80	26	106
Chad	-	-	-	-	-	-	-	-	-	-
China	-240	-325	-	0	-	-	-	-	-	-
Colombia	197	-3	-	-22	-	-24	-24	-	-	-
Denmark	-90	-	-	8	-	-	-	-	3	3
Dominican Republic	-16	-38	-	-1	-	-29	-29	0	-	0
Ecuador	140	-35	-	35	-	-39	-39	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-2	-	-	-	-	-	-	-	19	19
France	-217	-33	-	7	-	14	14	-	7	7
Germany	-40	-	-	0	-	-	-	-	2	2
Guatemala	-	-7	-	0	-	-61	-61	-	-	-
Honduras	-	-21	-	-	-	-20	-20	-	0	0
India	-238	-94	-	-1	-	0	0	-	19	19
Indonesia	-	-87	-	0	-	-	-	-	-	-
Italy	-148	-19	-	1	-	0	0	-	19	19
Japan	-	-535	-	-11	-	0	0	-	10	10
Korea, South	-371	-131	-	-14	-	10	10	0	5	5
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	47	-	-	-	-	0	0
Mexico	576	-220	-	79	-	-483	-483	0	-29	-29
Netherlands	-523	-52	-	-21	-	-9	-9	21	12	33
Norway	-107	-31	-	-4	-	10	10	-	21	21
Oman	-	-	-	3	-	-	-	-	-	-
Panama	-55	-12	-	0	-	-28	-28	-	0	0
Portugal	-	-35	-	-	-	-	-	-	18	18
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-146	-21	-	-1	-	-	-	-	20	20
Sweden	-58	-62	-	-3	-	0	0	-	20	20
Trinidad and Tobago	63	0	-	-	-	-11	-11	-	-	-
United Kingdom	-470	-34	-	10	-	4	4	62	8	70
Vietnam	-	-	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	0	-	0	-	-26	-26	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-587	-363	0	24	-	-150	-150	-1	22	22
Total	2,137	-2,354	16	234	-	-864	-864	179	248	427
Persian Gulf⁵	823	0	-	132	-	-	-	-	20	20

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	0	—	—	—	—	—	—	—	—	3	3
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	0	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	3	3
Venezuela	0	—	—	—	—	—	—	—	—	—	—
Non-OPEC	-55	13	22	2	-1,001	-108	-101	—	-1,210	-16	1
Argentina	0	0	—	—	-38	-10	—	—	-47	—	—
Aruba	—	—	—	—	0	—	—	—	0	0	—
Australia	0	—	—	—	0	—	—	—	0	—	—
Bahamas	—	—	—	—	-12	—	-9	—	-21	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	0	—	—	—	-19	—	—	—	-19	—	—
Brazil	0	0	—	—	-142	-4	—	—	-146	-15	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	-36	-6	—	—	161	-24	-3	—	134	0	0
Chad	—	—	—	—	—	—	—	—	—	—	—
China	0	—	—	—	0	—	—	—	0	—	—
Colombia	-1	—	—	—	-30	—	—	—	-30	—	—
Denmark	—	—	—	—	-17	—	—	—	-17	—	—
Dominican Republic	0	—	—	—	-14	-6	-18	—	-39	0	—
Ecuador	0	—	—	—	-76	-4	—	—	-80	0	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	2	—	—	—	—	—	—	—
France	0	—	—	—	-41	—	—	—	-41	—	—
Germany	0	14	—	—	0	—	—	—	0	—	—
Guatemala	0	—	—	—	-48	-9	—	—	-57	0	—
Honduras	—	—	—	—	-16	-9	—	—	-25	0	—
India	0	—	—	—	28	3	—	—	31	0	—
Indonesia	0	0	—	—	—	—	—	—	—	—	—
Italy	—	1	—	—	—	—	—	—	—	—	—
Japan	0	—	—	—	0	—	—	—	0	—	—
Korea, South	-3	4	—	—	0	—	—	—	0	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	0	—	—	—	—	—	—	—	—	—	—
Mexico	-3	—	—	—	-288	-7	0	—	-295	0	—
Netherlands	0	—	—	—	-78	-3	-3	—	-84	—	1
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	0	—	—	—	0	—	—
Panama	—	—	—	—	-64	-14	-12	—	-89	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	0	—	—	0	—	—	—	0	—	—
Qatar	0	—	—	—	5	—	—	—	5	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	0	—	—	—	0	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	-4	—	—	-4	—	—
United Kingdom	0	—	—	—	-51	—	—	—	-51	0	—
Vietnam	-2	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	0	—	—	—	-7	—	-31	—	-38	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	-10	0	22	0	-254	-17	-25	—	-297	-1	0
Total	-55	13	22	2	-1,001	-108	-101	—	-1,210	-12	4
Persian Gulf⁵	0	—	—	—	5	—	—	—	5	3	3

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	—	13	—	0	—	—	0	-4
Algeria	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—
Iraq	—	—	—	1	—	—	—	—
Kuwait	—	13	—	—	—	—	0	—
Libya	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	2	—	—	0	0
United Arab Emirates	—	—	—	-3	—	—	0	-4
Venezuela	—	0	—	—	—	—	—	—
Non-OPEC	—	-63	11	42	22	4	0	-554
Argentina	—	—	—	9	—	—	0	7
Aruba	—	-3	—	—	—	—	—	—
Australia	—	—	—	—	—	—	0	-5
Bahamas	—	-3	—	-13	—	—	—	—
Bahrain	—	—	—	1	—	—	—	—
Belgium	—	—	—	—	—	—	—	-4
Brazil	—	-3	—	24	—	—	0	-30
Brunei	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—
Canada	—	-18	3	-2	4	2	-1	-5
Chad	—	—	—	—	—	—	—	—
China	—	—	—	0	—	—	0	-119
Colombia	—	—	—	4	—	—	0	0
Denmark	—	—	—	—	—	—	—	-6
Dominican Republic	—	-4	—	—	—	—	—	—
Ecuador	—	—	—	3	—	—	0	-6
Estonia	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	0	0	—
Germany	—	—	1	—	—	—	0	—
Guatemala	—	-2	—	—	—	—	0	-7
Honduras	—	-2	—	0	—	—	—	-8
India	—	6	—	-4	15	—	0	-79
Indonesia	—	—	—	—	—	—	0	—
Italy	—	—	—	9	2	—	0	-24
Japan	—	—	1	0	—	—	0	-63
Korea, South	—	81	—	-9	—	—	0	-9
Latvia	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—
Malaysia	—	—	—	0	—	—	1	-8
Mexico	—	-72	—	72	1	2	0	-36
Netherlands	—	—	5	—	—	—	0	-14
Norway	—	—	—	—	—	—	—	-1
Oman	—	—	—	—	—	—	—	-9
Panama	—	-11	—	-27	—	—	—	-6
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	—	—	—	0	—
Qatar	—	4	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	0	-19
Sweden	—	—	—	—	—	—	0	0
Trinidad and Tobago	—	-4	—	—	—	—	—	—
United Kingdom	—	—	0	10	—	—	0	0
Vietnam	—	—	—	—	—	—	0	—
Virgin Islands, U.S.	—	—	—	-15	—	—	—	—
Yemen	—	—	—	—	—	—	—	—
Other	—	-32	1	-20	0	0	0	-103
Total	—	-49	11	42	22	4	0	-558
Persian Gulf⁵	—	17	—	1	—	—	0	-4

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	—	5	0	189	1,249
Algeria	—	—	—	38	43
Angola	—	—	—	10	15
Congo (Brazzaville)	—	—	—	—	—
Equatorial Guinea	—	0	—	0	0
Gabon	—	0	—	0	0
Iran	—	—	—	—	—
Iraq	—	0	—	50	326
Kuwait	—	0	0	13	61
Libya	—	0	—	0	93
Nigeria	—	0	—	-16	117
Saudi Arabia	—	0	—	105	605
United Arab Emirates	—	6	—	4	4
Venezuela	—	0	—	-15	-15
Non-OPEC	25	-11	-1	-4,479	-3,401
Argentina	0	-2	—	-31	29
Aruba	—	0	—	-5	-5
Australia	-1	0	0	-25	-25
Bahamas	0	0	0	15	15
Bahrain	—	1	—	2	2
Belgium	—	-2	0	-85	-85
Brazil	-2	-7	0	-260	-150
Brunei	—	—	—	—	—
Cameroon	—	0	—	0	0
Canada	46	1	0	122	3,361
Chad	—	—	—	—	—
China	0	0	0	-444	-684
Colombia	0	-4	0	-80	117
Denmark	—	0	—	-11	-101
Dominican Republic	-1	0	—	-113	-129
Ecuador	0	-3	—	-125	15
Estonia	—	—	—	—	—
Finland	—	0	—	20	18
France	—	0	0	-45	-262
Germany	0	0	—	17	-22
Guatemala	—	0	—	-134	-134
Honduras	-1	0	0	-77	-77
India	0	0	0	-107	-345
Indonesia	—	3	—	-84	-84
Italy	—	0	0	-9	-158
Japan	0	-1	0	-597	-597
Korea, South	0	18	0	-49	-421
Latvia	—	0	—	0	0
Lithuania	—	0	0	0	0
Malaysia	0	0	0	40	40
Mexico	-5	-16	-1	-1,006	-430
Netherlands	0	2	0	-138	-661
Norway	—	0	—	-5	-112
Oman	—	0	—	-6	-6
Panama	0	0	—	-174	-229
Portugal	—	0	—	-17	-17
Puerto Rico	0	0	—	-1	-1
Qatar	—	10	—	19	19
Russia	—	—	—	—	—
Spain	—	0	—	-20	-166
Sweden	—	0	—	-45	-103
Trinidad and Tobago	—	-1	0	-19	44
United Kingdom	0	0	—	9	-461
Vietnam	—	0	—	-2	-2
Virgin Islands, U.S.	—	0	—	-79	-79
Yemen	—	—	—	—	—
Other	-11	-10	0	-930	-1,515
Total	25	-6	-1	-4,290	-2,152
Persian Gulf⁵	—	17	0	194	1,017

-- = Not Applicable.

— = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	979	-7	-	183	-	-5	-5	4	34	37
Algeria	16	1	-	37	-	0	0	0	1	1
Angola	43	0	-	1	-	0	0	-	3	3
Congo (Brazzaville)	5	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	2	-	-	-	-	-	-	-	-
Gabon	2	-	-	-	-	-	-	-	-	-
Iran	1	-	-	-	-	-	-	-	-	-
Iraq	244	0	-	65	-	0	0	-	-	-
Kuwait	27	0	-	6	-	0	0	0	0	0
Libya	79	-	-	0	-	0	0	-	-	-
Nigeria	94	-11	-	2	-	-7	-7	-	7	7
Saudi Arabia	456	0	-	55	-	2	2	3	22	25
United Arab Emirates	12	0	-	18	-	0	0	1	1	1
Venezuela	-	0	-	-1	-	0	0	0	0	0
Non-OPEC	1,695	-2,225	15	48	-	-780	-780	154	278	432
Argentina	62	-1	-	-4	-	-4	-4	-	7	7
Aruba	-	0	-	0	-	-1	-1	-	0	0
Australia	-20	-9	-	0	-	0	0	0	0	0
Bahamas	-3	-1	-	-1	-	-2	-2	2	2	5
Bahrain	-	-	-	0	-	0	0	0	-	0
Belgium	-3	-52	-	-3	-	9	9	2	5	7
Brazil	84	-40	-	-41	-	-38	-38	0	7	7
Brunei	-	-	-	-	-	-	-	-	1	1
Cameroon	-	0	-	-	-	-	-	-	-	-
Canada	3,461	-94	15	-49	-	-6	-6	66	22	88
Chad	-	-	-	-	-	-	-	-	-	-
China	-228	-300	-	0	-	0	0	0	0	0
Colombia	198	-3	-	-33	-	-41	-41	-	0	0
Denmark	-47	-	-	0	-	0	0	0	1	1
Dominican Republic	-22	-41	-	0	-	-16	-16	0	-1	-1
Ecuador	142	-36	-	13	-	-19	-19	-	0	0
Estonia	-	-	-	-	-	0	0	-	0	0
Finland	-9	-18	-	-1	-	0	0	-	17	17
France	-169	-25	-	4	-	5	5	3	10	13
Germany	-108	-1	-	1	-	1	1	0	2	2
Guatemala	2	-9	-	0	-	-45	-45	0	0	0
Honduras	-	-17	-	0	-	-16	-16	-	0	0
India	-323	-112	-	4	-	1	1	2	53	55
Indonesia	-2	-82	-	0	-	-	-	-	-	-
Italy	-162	-5	-	7	-	5	5	1	22	23
Japan	-30	-414	-	-13	-	1	1	0	5	5
Korea, South	-371	-138	-	-3	-	12	12	0	14	14
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-4	-	-	0	-	4	4	0	2	2
Malaysia	-9	0	-	20	-	0	0	-	2	2
Mexico	637	-202	0	58	-	-483	-483	0	-20	-20
Netherlands	-368	-83	-	-23	-	8	8	29	17	46
Norway	-11	-36	-	-3	-	5	5	6	9	15
Oman	-	0	-	2	-	-	-	-	1	1
Panama	-21	-9	-	0	-	-23	-23	0	-1	-1
Portugal	-12	-23	-	-	-	1	1	0	21	21
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Qatar	-	0	-	2	-	0	0	0	0	0
Russia	20	0	-	99	-	1	1	-	6	6
Spain	-161	-37	-	3	-	2	2	1	28	29
Sweden	-34	-45	-	-1	-	1	1	0	7	7
Trinidad and Tobago	44	1	-	0	-	-3	-3	-	-	-
United Kingdom	-308	-44	-	3	-	3	3	40	14	54
Vietnam	-5	-7	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	-1	-	0	-	-4	-4	0	0	0
Yemen	-	-	-	0	-	-	-	-	-	-
Other	-525	-341	0	7	-	-137	-137	2	25	26
Total	2,673	-2,232	15	231	-	-785	-785	158	312	470
Persian Gulf⁵	740	0	-	146	-	2	2	4	23	26

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-4	0	0	-	9	0	-	-	8	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	0	-	-	-	0	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	0	-	-	-	0	-	-
Kuwait	0	-	-	-	0	-	-	-	0	-	-
Libya	0	-	-	-	0	-	-	-	0	-	-
Nigeria	-2	-	-	-	2	0	-	-	1	0	-
Saudi Arabia	-1	0	-	-	7	-	-	-	7	0	-
United Arab Emirates	-1	0	0	-	0	-	-	-	0	0	0
Venezuela	0	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-80	-3	17	0	-899	-87	-97	1	-1,082	-8	1
Argentina	0	0	-	-	-45	-2	-6	-	-53	0	-
Aruba	0	-	-	-	-1	-	0	-	-1	0	-
Australia	0	0	-	-	0	-	0	-	0	0	-
Bahamas	0	0	-	-	-14	-2	-9	-	-25	0	-
Bahrain	0	-	-	-	-	-	-	-	-	0	-
Belgium	0	0	-	-	-5	-	-1	-	-6	-	-
Brazil	1	0	-	-	-135	-5	-5	-	-145	-4	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-33	-4	-	-	130	-8	-4	-	118	-1	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-	-	-1	0	0	-	-2	0	-
Colombia	-1	-	-	-	-32	0	-	-	-33	0	-
Denmark	-	-	-	-	-4	-	-	-	-4	-	-
Dominican Republic	0	-	-	-	-10	-1	-11	-	-21	0	-
Ecuador	0	-	-	-	-45	-4	-1	1	-50	0	-
Estonia	-	-	-	-	-	-	-	-	-	-	0
Finland	0	-	-	0	-	-	-	-	-	-	-
France	0	-	-	-	-8	-1	-	-	-8	0	-
Germany	0	5	-	-	0	-	-	-	0	-	-
Guatemala	0	-	-	-	-24	-9	-5	-	-38	0	-
Honduras	0	-	-	-	-10	-10	-3	-	-23	0	-
India	-6	0	-	-	2	0	0	-	2	0	-
Indonesia	0	0	-	-	0	-	-	-	0	-	-
Italy	0	1	-	-	-	-	-	-	-	-	-
Japan	0	-	-	0	1	-	-	-	1	0	-
Korea, South	-10	1	-	-	6	3	-	-	9	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	0	-	-	-	0	-	-
Malaysia	0	0	-	0	0	-	-	-	0	0	-
Mexico	-5	0	-	-	-287	-4	-2	-	-293	0	-
Netherlands	-6	-1	0	-	-18	-2	-6	-	-25	0	1
Norway	0	0	-	-	-1	-	-	-	-1	-	-
Oman	-1	-	-	-	1	-	-	-	1	-	-
Panama	0	-	-	-	-54	-8	-9	-	-71	0	-
Portugal	-	-	-	-	1	-	-	-	1	-	-
Puerto Rico	0	0	-	-	-5	0	0	-	-5	0	-
Qatar	0	-	-	-	11	-	-	-	11	-	-
Russia	-	-	-	-	6	-	0	-	6	-	-
Spain	0	1	-	-	-2	-	-	-	-2	0	-
Sweden	-1	-	-	-	-1	-1	-	-	-2	-	-
Trinidad and Tobago	0	-	-	-	-6	0	-7	-	-14	-	-
United Kingdom	-4	0	-	-	-31	-2	-1	-	-33	-1	-
Vietnam	0	-	-	-	0	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-	-14	-1	-7	-	-23	0	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-14	-6	17	0	-304	-30	-20	0	-353	-2	0
Total	-84	-3	17	0	-890	-87	-97	1	-1,074	-8	1
Persian Gulf⁵	-2	0	0	-	17	-	-	-	17	0	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	—	11	0	12	0	—	0	-5
Algeria	—	0	—	3	—	—	—	0
Angola	—	—	—	—	0	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—
Equatorial Guinea	—	0	—	0	—	—	—	—
Gabon	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—
Iraq	—	—	—	2	—	—	0	—
Kuwait	—	9	—	—	—	—	0	0
Libya	—	—	—	—	—	—	—	—
Nigeria	—	0	—	—	—	—	0	-1
Saudi Arabia	—	1	0	6	—	—	0	0
United Arab Emirates	—	1	—	0	—	—	0	-4
Venezuela	—	0	—	—	—	—	0	—
Non-OPEC	—	-70	13	97	12	3	1	-547
Argentina	—	-1	—	0	—	0	0	2
Aruba	—	-1	—	—	—	—	—	—
Australia	—	0	—	0	—	—	0	-7
Bahamas	—	-4	—	-13	—	—	—	—
Bahrain	—	—	—	1	—	—	0	0
Belgium	—	0	—	3	—	—	0	-4
Brazil	—	-6	—	20	—	—	0	-49
Brunei	—	—	—	—	—	—	—	—
Cameroon	—	—	—	0	—	—	—	0
Canada	—	-17	3	6	3	2	0	-18
Chad	—	—	—	—	—	—	—	—
China	—	5	—	0	—	—	1	-103
Colombia	—	-3	—	13	—	—	0	0
Denmark	—	—	—	1	—	—	0	-2
Dominican Republic	—	-6	—	-3	—	—	0	-6
Ecuador	—	0	—	3	—	—	0	-4
Estonia	—	—	—	—	—	—	0	—
Finland	—	—	—	—	—	—	0	-1
France	—	—	—	0	0	0	0	-3
Germany	—	0	0	3	0	—	0	-1
Guatemala	—	-2	—	0	—	—	0	-11
Honduras	—	-2	—	-1	—	—	0	-8
India	—	4	—	-1	1	—	0	-63
Indonesia	—	—	—	—	—	—	0	0
Italy	—	—	—	1	0	—	0	-19
Japan	—	17	1	0	1	—	0	-50
Korea, South	—	64	8	-9	1	—	0	-3
Latvia	—	0	—	—	—	—	—	—
Lithuania	—	—	—	3	—	—	0	—
Malaysia	—	—	—	2	—	—	1	-2
Mexico	—	-53	0	79	3	0	-1	-54
Netherlands	—	-3	1	0	0	—	0	-10
Norway	—	—	—	1	—	—	0	-3
Oman	—	0	—	—	—	—	—	-3
Panama	—	-14	—	-21	—	—	0	-1
Portugal	—	—	—	—	—	—	0	-2
Puerto Rico	—	-2	—	0	—	—	0	—
Qatar	—	2	—	—	0	—	0	-1
Russia	—	—	—	15	—	—	0	0
Spain	—	—	0	2	0	—	0	-15
Sweden	—	—	—	1	—	—	0	0
Trinidad and Tobago	—	-3	—	0	—	—	0	0
United Kingdom	—	-1	0	2	0	0	0	-3
Vietnam	—	0	—	—	—	—	0	0
Virgin Islands, U.S.	—	-3	—	-11	—	—	—	—
Yemen	—	—	—	—	—	—	—	—
Other	—	-41	0	0	3	1	0	-103
Total	—	-59	13	109	12	3	1	-552
Persian Gulf⁶	—	12	0	9	0	—	0	-6

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	2	0	232	1,211
Algeria	—	0	—	43	59
Angola	0	0	—	4	47
Congo (Brazzaville)	—	—	—	—	974
Equatorial Guinea	—	0	—	2	2
Gabon	—	0	—	0	2
Iran	—	—	—	—	1
Iraq	—	0	—	67	311
Kuwait	—	0	0	15	42
Libya	—	0	—	0	79
Nigeria	0	-2	—	-13	82
Saudi Arabia	0	0	0	94	550
United Arab Emirates	0	5	0	20	32
Venezuela	—	0	0	-2	-2
Non-OPEC	37	-46	-2	-4,165	-2,471
Argentina	-1	-1	0	-56	7
Aruba	—	0	—	-4	-4
Australia	0	0	0	-17	-37
Bahamas	0	0	0	-41	-44
Bahrain	—	2	—	2	2
Belgium	0	-11	0	-57	-59
Brazil	0	-9	0	-305	-221
Brunei	—	0	—	1	1
Cameroon	—	0	—	0	0
Canada	44	0	0	55	3,516
Chad	—	0	—	0	0
China	0	0	0	-399	-627
Colombia	1	-8	0	-107	91
Denmark	—	0	—	-3	-50
Dominican Republic	-1	-1	0	-96	-118
Ecuador	0	-2	0	-95	47
Estonia	—	0	—	0	0
Finland	—	-1	—	-4	-13
France	—	-2	0	-15	-184
Germany	0	0	0	11	-97
Guatemala	0	-1	0	-106	-103
Honduras	0	0	0	-69	-69
India	0	-2	0	-117	-440
Indonesia	0	3	0	-79	-81
Italy	0	0	0	15	-147
Japan	0	0	0	-451	-481
Korea, South	0	12	0	-43	-414
Latvia	—	0	—	-1	-1
Lithuania	—	0	0	10	6
Malaysia	0	0	0	22	13
Mexico	-3	-23	-1	-996	-359
Netherlands	0	1	0	-94	-462
Norway	—	0	0	-21	-32
Oman	—	0	—	0	0
Panama	-1	-1	0	-141	-162
Portugal	—	0	—	-3	-15
Puerto Rico	-1	-1	0	-9	-9
Qatar	0	11	—	24	24
Russia	0	0	—	127	147
Spain	2	0	—	-15	-175
Sweden	—	0	0	-40	-74
Trinidad and Tobago	—	0	0	-19	24
United Kingdom	0	0	0	-24	-332
Vietnam	0	0	0	-7	-12
Virgin Islands, U.S.	0	0	—	-43	-43
Yemen	—	0	—	0	0
Other	-3	-12	-1	-955	-1,484
Total	37	-44	-2	-3,933	-1,260
Persian Gulf⁵	0	18	0	223	963

-- = Not Applicable.

— = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	7,612	106,640	614,916	24,421	48,002	801,591
Refinery	5,642	13,680	45,341	2,449	20,535	87,647
Tank Farms and Pipelines (Includes Cushing, OK)	1,970	92,960	197,545	21,972	24,611	339,058
Cushing, Oklahoma	--	25,790	--	--	--	25,790
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	372,030	--	--	372,030
Alaskan In Transit	--	--	--	--	2,856	2,856
Total Stocks, All Oils (excluding Crude Oil)²	135,229	175,706	364,340	23,767	93,032	792,074
Refinery	11,743	46,875	114,140	10,451	49,634	232,843
Bulk Terminal	93,917	89,932	192,087	6,684	38,314	420,934
Pipeline	29,307	37,309	56,497	6,476	4,723	134,312
Natural Gas Processing Plant	262	1,590	1,616	156	361	3,985
Natural Gas Liquids	9,555	51,963	137,813	6,042	3,839	209,212
Refinery	465	3,506	4,988	330	1,312	10,601
Bulk Terminal	6,768	28,828	107,463	1,073	2,166	146,298
Pipeline	2,060	18,039	23,746	4,483	--	48,328
Natural Gas Processing Plant	262	1,590	1,616	156	361	3,985
Ethane	860	6,195	45,455	1,036	--	53,546
Refinery	--	--	18	--	--	18
Bulk Terminal	297	2,278	36,708	--	--	39,283
Pipeline	563	3,757	8,699	1,032	--	14,051
Natural Gas Processing Plant	--	160	30	4	--	194
Propane	6,839	23,026	42,812	2,397	1,480	76,554
Refinery	105	1,255	928	41	130	2,459
Bulk Terminal	5,442	17,319	34,766	574	1,313	59,414
Pipeline	1,164	3,715	6,973	1,717	--	13,569
Natural Gas Processing Plant	128	737	145	65	37	1,112
Normal Butane	1,514	10,086	26,706	1,411	2,033	41,750
Refinery	278	1,370	2,840	210	898	5,596
Bulk Terminal	937	6,981	20,809	484	850	30,061
Pipeline	250	1,489	2,697	690	--	5,126
Natural Gas Processing Plant	49	246	360	27	285	967
Isobutane	140	2,029	9,310	425	304	12,208
Refinery	82	494	795	74	282	1,727
Bulk Terminal	--	586	6,544	--	--	7,130
Pipeline	44	799	1,418	337	--	2,598
Natural Gas Processing Plant	14	150	553	14	22	753
Natural Gasoline	202	10,627	13,530	773	22	25,154
Refinery	--	387	407	5	2	801
Bulk Terminal	92	1,664	8,636	15	3	10,410
Pipeline	39	8,279	3,959	707	--	12,984
Natural Gas Processing Plant	71	297	528	46	17	959
Refinery Olefins	153	383	1,242	78	17	1,873
Refinery	153	383	1,242	78	17	1,873
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Propylene	137	372	805	10	14	1,338
Refinery	137	372	805	10	14	1,338
Normal Butylene	0	11	437	68	3	519
Refinery	0	11	437	68	3	519
Isobutylene	16	0	0	0	0	16
Refinery	16	0	0	0	0	16
Other Hydrocarbons	--	10	--	--	--	10
Refinery	--	10	--	--	--	10
Biofuels (Including Fuel Ethanol)²	8,131	11,233	6,054	580	5,715	31,713
Refinery	188	113	1,300	104	1,277	2,982
Bulk Terminal	7,894	11,120	4,754	476	4,438	28,682
Pipeline	49	--	--	--	--	49
Fuel Ethanol	7,034	9,996	4,486	342	2,568	24,426
Refinery	179	94	1,205	94	173	1,745
Bulk Terminal	6,806	9,902	3,281	248	2,395	22,632
Pipeline	49	--	--	--	--	49
Biodiesel	1,098	1,113	687	14	687	3,599
Refinery	9	19	95	10	7	140
Bulk Terminal	1,089	1,094	592	4	680	3,459
Pipeline	--	--	--	--	--	--
Renewable Diesel Fuel	--	80	715	207	2,404	3,405
Refinery	--	--	--	--	1,097	1,097
Bulk Terminal	--	80	715	207	1,307	2,308
Pipeline	--	--	--	--	--	--
Other Biofuels³	--	43	166	18	56	282
Refinery	--	--	--	--	--	--
Bulk Terminal	--	43	166	18	56	282
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	3,457	13,573	47,644	2,995	18,476	86,145
Naphthas and Lighter	855	2,961	10,660	640	2,702	17,818
Refinery	855	2,935	9,728	640	2,517	16,675
Bulk Terminal	--	--	--	--	--	--
Kerosene and Light Gas Oils	431	2,806	8,422	709	3,104	15,472
Refinery	431	2,806	6,355	709	3,024	13,325
Bulk Terminal	--	--	2,067	--	80	2,147
Heavy Gas Oils	1,568	5,613	22,263	943	9,548	39,935
Refinery	1,544	5,254	19,471	943	8,907	36,119
Bulk Terminal	24	359	2,792	--	641	3,816
Residuum	603	2,193	6,299	703	3,122	12,920
Refinery	603	2,193	6,299	703	3,122	12,920
Bulk Terminal	--	--	--	--	--	--
Motor Gasoline Blending Components²	53,504	43,323	73,588	6,131	30,351	206,897
Refinery	3,234	12,579	24,931	3,041	13,938	57,723
Bulk Terminal	37,862	22,266	31,221	2,052	13,562	106,963
Pipeline	12,408	8,478	17,436	1,038	2,851	42,211
Reformulated - RBOB	16,836	4,335	8,986	--	15,353	45,511
Refinery	1,281	777	1,158	--	5,443	8,659
Bulk Terminal	11,930	2,991	4,476	--	8,338	27,736
Pipeline	3,625	567	3,352	--	1,572	9,116
Conventional	36,668	38,987	64,602	6,131	14,998	161,386
Refinery	1,953	11,802	23,773	3,041	8,495	49,064
Bulk Terminal	25,932	19,274	26,745	2,052	5,224	79,227
Pipeline	8,783	7,911	14,084	1,038	1,279	33,095
CBOB	26,410	31,996	36,148	4,772	7,787	107,113
Refinery	229	5,929	10,435	1,685	2,428	20,706
Bulk Terminal	17,400	18,197	11,861	2,049	4,085	53,592
Pipeline	8,781	7,870	13,852	1,038	1,274	32,815
GTAB	1,082	--	--	--	--	1,082
Refinery	--	--	--	--	--	--
Bulk Terminal	1,082	--	--	--	--	1,082
Pipeline	--	--	--	--	--	--
Other	9,176	6,991	28,454	1,359	7,211	53,191
Refinery	1,724	5,873	13,338	1,356	6,067	28,358
Bulk Terminal	7,450	1,077	14,884	3	1,139	24,553
Pipeline	2	41	232	--	5	280
Aviation Gasoline Blending Components	--	--	33	--	--	33
Refinery	--	--	33	--	--	33
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	2,894	3,262	7,768	1,286	2,202	17,412
Refinery	19	490	3,558	778	743	5,588
Bulk Terminal	526	1,033	3,869	349	1,443	7,220
Pipeline	2,349	1,739	341	159	16	4,604
Reformulated	5	--	--	--	15	20
Refinery	--	--	--	--	15	15
Bulk Terminal	5	--	--	--	--	5
Pipeline	--	--	--	--	--	--
Reformulated (Blended with Fuel Ethanol)	5	--	--	--	15	20
Refinery	--	--	--	--	15	15
Bulk Terminal	5	--	--	--	--	5
Pipeline	--	--	--	--	--	--
Reformulated (Other)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Conventional	2,889	3,262	7,768	1,286	2,187	17,392
Refinery	19	490	3,558	778	728	5,573
Bulk Terminal	521	1,033	3,869	349	1,443	7,215
Pipeline	2,349	1,739	341	159	16	4,604
Conventional (Blended with Fuel Ethanol)	--	184	--	60	34	278
Refinery	--	--	--	58	--	58
Bulk Terminal	--	184	--	2	34	220
Pipeline	--	--	--	--	--	--
Ed55 and Lower	--	184	--	60	--	244
Refinery	--	--	--	58	--	58
Bulk Terminal	--	184	--	2	--	186
Pipeline	--	--	--	--	--	--
Greater than Ed55	--	--	--	--	34	34
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	34	34
Pipeline	--	--	--	--	--	--
Conventional (Other)	2,889	3,078	7,768	1,226	2,153	17,114
Refinery	19	490	3,558	720	728	5,515
Bulk Terminal	521	849	3,869	347	1,409	6,995
Pipeline	2,349	1,739	341	159	16	4,604

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	206	203	551	9	337	1,306
Refinery	—	62	394	9	205	670
Bulk Terminal	206	141	157	—	132	636
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,957	6,802	9,595	755	8,930	35,039
Refinery	508	1,631	4,148	372	3,506	10,165
Bulk Terminal	5,158	2,920	2,571	233	4,655	15,537
Pipeline	3,291	2,251	2,876	150	769	9,337
Kerosene	1,616	98	409	2	3	2,128
Refinery	84	94	54	2	2	236
Bulk Terminal	1,201	4	294	—	1	1,500
Pipeline	331	—	61	—	—	392
Distillate Fuel Oil²	34,402	28,856	38,559	3,694	13,298	118,809
Refinery	1,380	5,768	12,689	1,650	5,346	26,833
Bulk Terminal	24,203	16,286	13,833	1,398	6,865	62,585
Pipeline	8,819	6,802	12,037	646	1,087	29,391
15 ppm sulfur and Under	32,015	28,054	32,712	3,498	12,374	108,653
Refinery	1,038	5,306	10,349	1,509	4,779	22,981
Bulk Terminal	22,323	16,202	10,645	1,343	6,606	57,119
Pipeline	8,654	6,546	11,718	646	989	28,553
Greater than 15 ppm to 500 ppm sulfur	591	397	1,131	148	232	2,499
Refinery	126	103	534	93	199	1,055
Bulk Terminal	465	49	497	55	1	1,067
Pipeline	—	245	100	—	32	377
Greater than 500 ppm sulfur	1,796	405	4,716	48	692	7,657
Refinery	216	359	1,806	48	368	2,797
Bulk Terminal	1,415	35	2,691	—	258	4,399
Pipeline	165	11	219	—	66	461
Residual Fuel Oil	5,611	1,188	18,640	210	5,090	30,739
Refinery	367	1,065	4,688	210	2,610	8,940
Bulk Terminal	5,244	123	13,952	—	2,480	21,799
Pipeline	—	—	—	—	—	—
Less than 0.31% Sulfur	293	219	1,541	26	701	2,780
Refinery	18	216	60	26	36	356
Bulk Terminal	275	3	1,481	—	665	2,424
0.31% to 1.00% Sulfur	842	244	4,227	4	854	6,171
Refinery	102	242	970	4	430	1,748
Bulk Terminal	740	2	3,257	—	424	4,423
Greater than 1.00% Percent Sulfur	4,476	725	12,872	180	3,535	21,788
Refinery	247	607	3,658	180	2,144	6,836
Bulk Terminal	4,229	118	9,214	—	1,391	14,952
Petrochemical Feedstocks	—	528	1,860	—	—	2,388
Refinery	—	528	1,860	—	—	2,388
Naphtha for Petrochemical Feedstock Use	—	393	1,390	—	—	1,783
Other Oils for Petrochemical Feedstock Use	—	135	470	—	—	605
Special Naphthas	61	118	766	—	32	977
Refinery	34	75	755	—	32	896
Bulk Terminal	27	43	11	—	—	81
Lubricants	1,540	722	10,058	—	1,027	13,347
Refinery	970	227	5,914	—	794	7,905
Bulk Terminal	570	495	4,144	—	233	5,442
Waxes	221	47	333	—	—	601
Refinery	221	47	333	—	—	601
Petroleum Coke	—	2,619	2,894	97	1,264	6,874
Refinery	—	2,619	2,894	97	1,264	6,874
Asphalt and Road Oil	4,855	10,647	5,930	1,871	2,373	25,676
Refinery	621	4,358	1,955	769	940	8,643
Bulk Terminal	4,234	6,289	3,975	1,102	1,433	17,033
Miscellaneous Products	66	132	603	16	78	895
Refinery	66	132	551	16	78	843
Bulk Terminal	—	—	52	—	—	52
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	142,841	282,346	979,256	48,188	141,034	1,593,665

-- = Not Applicable.

- = No Data Reported.

1 Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

2 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

3 Includes stocks held at biofuel production facilities.

Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2022
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	5	540	545	13,211	27,885	41,096	1,285
Connecticut	—	—	—	919	15	934	31
Delaware	—	—	—	719	404	1,123	53
District of Columbia	—	—	—	—	—	—	—
Florida	—	244	244	—	5,338	5,338	—
Georgia	—	72	72	—	2,415	2,415	—
Maine	—	—	—	-22	270	248	187
Maryland	—	—	—	1,050	67	1,117	32
Massachusetts	4	—	4	1,583	—	1,583	—
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	3	3	5,857	9,457	15,314	464
New York	1	—	1	914	1,522	2,436	332
North Carolina	—	58	58	—	2,365	2,365	22
Pennsylvania	—	—	—	559	3,570	4,129	110
Rhode Island	—	—	—	345	4	349	—
South Carolina	—	98	98	—	1,198	1,198	18
Vermont	—	—	—	—	18	18	3
Virginia	—	22	22	1,287	1,071	2,358	33
West Virginia	—	43	43	—	171	171	—
PAD District 2	—	1,523	1,523	3,768	31,076	34,845	98
Illinois	—	34	34	1,813	4,054	5,867	58
Indiana	—	83	83	717	3,663	4,380	—
Iowa	—	61	61	—	2,106	2,106	—
Kansas	—	218	218	—	2,796	2,796	19
Kentucky	—	85	85	325	1,446	1,771	—
Michigan	—	12	12	65	2,866	2,931	—
Minnesota	—	251	251	0	2,174	2,174	—
Missouri	—	130	130	344	654	998	—
Nebraska	—	58	58	—	592	592	—
North Dakota	—	37	37	—	919	919	—
Ohio	—	280	280	—	3,317	3,317	6
Oklahoma	—	140	140	—	2,648	2,648	13
South Dakota	—	27	27	—	417	417	—
Tennessee	—	49	49	—	2,063	2,063	—
Wisconsin	—	58	58	504	1,361	1,865	2
PAD District 3	—	7,427	7,427	5,634	50,518	56,152	348
Alabama	—	112	112	5	1,055	1,060	3
Arkansas	—	114	114	—	870	870	—
Louisiana	—	1,206	1,206	174	11,742	11,916	1
Mississippi	—	1,554	1,554	13	2,028	2,041	—
New Mexico	—	24	24	6	636	642	—
Texas	—	4,417	4,417	5,436	34,187	39,623	344
PAD District 4	—	1,127	1,127	—	5,093	5,093	2
Colorado	—	141	141	—	1,372	1,372	—
Idaho	—	42	42	—	373	373	—
Montana	—	327	327	—	1,262	1,262	—
Utah	—	112	112	—	1,382	1,382	2
Wyoming	—	505	505	—	704	704	—
PAD District 5	15	2,171	2,186	13,781	13,719	27,500	3
Alaska	—	336	336	—	547	547	1
Arizona	—	72	72	789	198	987	—
California	15	442	457	12,832	6,929	19,761	2
Hawaii	—	438	438	—	353	353	—
Nevada	—	265	265	21	282	303	—
Oregon	—	85	85	—	1,633	1,633	—
Washington	—	533	533	139	3,777	3,916	—
U.S. Total	20	12,788	12,808	36,395	128,291	164,686	1,736

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2022
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	23,361	591	1,631	25,583	5,611	5,675
Connecticut	1,134	—	—	1,134	10	—
Delaware	353	32	74	459	582	10
District of Columbia	—	—	—	—	—	—
Florida	1,985	51	—	2,036	1,001	242
Georgia	1,539	—	—	1,539	244	13
Maine	818	3	—	821	22	—
Maryland	902	—	—	902	269	—
Massachusetts	685	7	—	692	84	—
New Hampshire	681	—	—	681	33	173
New Jersey	5,851	187	825	6,863	2,721	93
New York	2,820	—	351	3,171	308	1,608
North Carolina	1,160	—	—	1,160	—	326
Pennsylvania	2,640	—	122	2,762	275	2,214
Rhode Island	709	—	—	709	—	—
South Carolina	620	—	—	620	20	569
Vermont	6	—	—	6	—	—
Virginia	1,279	220	259	1,758	42	5
West Virginia	179	91	—	270	—	91
PAD District 2	21,508	152	394	22,054	1,188	19,311
Illinois	2,658	—	1	2,659	415	946
Indiana	2,322	—	66	2,388	233	217
Iowa	1,917	1	—	1,918	—	169
Kansas	2,180	—	—	2,180	27	12,841
Kentucky	854	—	—	854	—	239
Michigan	1,342	—	—	1,342	71	3,610
Minnesota	1,649	—	126	1,775	160	280
Missouri	854	37	5	896	—	76
Nebraska	971	—	—	971	—	235
North Dakota	693	—	—	693	43	34
Ohio	1,636	11	79	1,726	102	522
Oklahoma	1,566	103	117	1,786	58	91
South Dakota	654	—	—	654	—	7
Tennessee	1,173	—	—	1,173	78	6
Wisconsin	1,038	—	—	1,038	1	38
PAD District 3	20,994	1,031	4,497	26,522	18,640	35,839
Alabama	920	—	30	950	331	11
Arkansas	632	—	—	632	—	26
Louisiana	4,691	477	1,002	6,170	8,498	2,548
Mississippi	842	278	61	1,181	894	1,863
New Mexico	269	—	—	269	113	3
Texas	13,640	276	3,404	17,320	8,804	31,388
PAD District 4	2,852	148	48	3,048	210	680
Colorado	607	—	—	607	3	21
Idaho	166	—	—	166	—	—
Montana	978	69	—	1,047	77	27
Utah	608	19	48	675	45	583
Wyoming	493	60	—	553	85	49
PAD District 5	11,385	200	626	12,211	5,090	1,480
Alaska	906	—	37	943	135	3
Arizona	746	—	—	746	—	840
California	5,045	199	353	5,597	3,171	316
Hawaii	310	1	234	545	859	55
Nevada	431	—	2	433	—	—
Oregon	1,325	—	—	1,325	173	—
Washington	2,622	—	—	2,622	752	266
U.S. Total	80,100	2,122	7,196	89,418	30,739	62,985

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	544	20	0	1,670	53,726	5,278	2,234	2,346	22,298
Petroleum Products	17,831	115	0	21,764	41,672	11,842	4,642	105,137	20,063
Natural Gas Liquids	7,514	66	0	7,470	29,910	8,095	1,107	2,658	13,579
Ethane	5,376	0	—	505	13,843	2,001	—	0	1,346
Propane	1,053	46	0	5,266	8,417	3,164	393	2,579	1,717
Normal Butane	373	0	0	1,592	3,439	1,326	673	79	1,020
Isobutane	474	20	0	107	1,351	471	41	0	994
Natural Gasoline	238	0	—	0	2,860	1,133	—	0	8,502
Refinery Olefins	0	0	—	269	563	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	269	563	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	63	0	—	0	1,079	—	—	15	20
Motor Gasoline Blending Components	7,153	0	0	1,475	1,597	1,753	0	56,072	2,763
Reformulated - RBOB	0	0	0	0	285	—	0	6,696	519
Conventional	7,153	0	0	1,475	1,312	1,753	0	49,376	2,244
CBOB	7,153	0	0	1,475	1,265	1,753	0	48,538	2,244
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	47	—	—	838	0
Biofuels (including Fuel Ethanol)	0	0	0	9,242	4,820	467	3,408	0	0
Fuel Ethanol	0	0	0	8,981	4,546	433	2,956	0	0
Biodiesel	0	0	0	262	274	34	452	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	92	0	0	562	117	97	0	1,962	187
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	92	0	0	562	117	97	0	1,962	187
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	92	0	0	562	117	97	0	1,962	187
Finished Aviation Gasoline	—	0	—	0	0	—	—	50	—
Kerosene-Type Jet Fuel	405	0	0	109	0	528	0	15,386	1,660
Kerosene	—	0	—	0	0	—	—	37	—
Distillate Fuel Oil	2,564	0	0	1,518	1,060	881	0	28,122	1,538
15 ppm sulfur and under	2,564	0	0	1,518	1,060	881	0	27,225	1,391
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	147
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	896	—
Residual Fuel Oil	0	0	—	—	1,185	—	—	—	0
Petrochemical Feedstocks	0	31	—	0	134	—	—	0	35
Naphtha for Petrochemical Feedstock Use	0	0	—	—	92	—	—	—	35
Other Oils for Petrochemical Feedstock Use	0	31	—	0	42	—	—	0	0
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	0	0	—	0	0	—	—	512	134
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	18	0	482	767	16	3	50	16
Asphalt and Road Oil	40	0	0	636	441	5	124	273	116
Miscellaneous Products	0	0	—	—	0	—	—	—	15
Total	18,375	135	0	23,434	95,398	17,120	6,877	107,483	42,361

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	0	0	24,060	1,468	0	0	0	0
Petroleum Products	0	5,687	0	18,795	3,217	2,991	0	23	70
Natural Gas Liquids	0	194	0	17,526	3,071	776	0	0	0
Ethane	0	—	0	5,199	820	—	0	0	0
Propane	0	0	0	6,389	1,038	281	0	0	0
Normal Butane	0	157	0	2,645	447	432	0	0	0
Isobutane	0	37	0	1,031	249	63	0	0	0
Natural Gasoline	0	—	0	2,262	517	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,571	0	178	0	1,428	0	0	0
Reformulated - RBOB	—	2,031	0	0	0	0	0	0	—
Conventional	0	1,540	0	178	0	1,428	0	0	0
CBOB	0	1,540	0	178	0	1,428	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	0	1,006	0	0	0	121	0	0	3
Fuel Ethanol	0	494	0	0	0	121	0	0	0
Biodiesel	0	80	0	0	0	0	0	0	3
Renewable Diesel Fuel	—	432	—	—	0	0	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	435	0	100	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	435	0	100	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	435	0	100	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	0	—
Kerosene-Type Jet Fuel	0	260	0	12	0	25	0	0	0
Kerosene	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil	0	571	0	390	0	274	0	0	0
15 ppm sulfur and under	0	571	0	390	0	274	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	13	0	168	40	64	0	23	26
Asphalt and Road Oil	0	73	0	86	106	202	0	0	41
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,687	0	42,855	4,685	2,991	0	23	70

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	234	20	200	53,647	5,278	111	22,298	0	-
Petroleum Products	17,266	0	8,312	31,994	11,354	83,551	18,850	0	4,402
Natural Gas Liquids	7,052	0	5,910	29,518	8,095	2,299	12,921	0	-
Ethane	5,376	0	505	13,843	2,001	0	1,346	0	-
Propane	1,010	0	4,126	8,119	3,164	2,299	1,664	0	-
Normal Butane	127	0	1,279	3,383	1,326	0	655	0	-
Isobutane	301	0	0	1,313	471	0	754	0	-
Natural Gasoline	238	0	0	2,860	1,133	0	8,502	0	-
Motor Gasoline Blending Components	7,153	0	711	1,468	1,753	45,408	2,763	0	3,571
Reformulated - RBOB	0	0	0	285	-	6,696	519	-	2,031
Conventional	7,153	0	711	1,183	1,753	38,712	2,244	0	1,540
CBOB	7,153	0	711	1,183	1,753	37,896	2,244	0	1,540
GTAB	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	-	816	-	-	-
Biofuels (including Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Biodiesel	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	92	0	511	0	97	982	187	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	92	0	511	0	97	982	187	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	92	0	511	0	97	982	187	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	405	0	109	0	528	10,968	1,660	0	260
Kerosene	-	0	0	0	-	37	-	-	-
Distillate Fuel Oil	2,564	0	1,071	1,008	881	23,857	1,319	0	571
15 ppm sulfur and under	2,564	0	1,071	1,008	881	23,209	1,172	0	571
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	147	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,500	20	8,512	85,641	16,632	83,662	41,148	0	4,402

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2022
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	24,060	200	—	0	0
Petroleum Products	0	18,541	3,071	1,827	0	0
Natural Gas Liquids	0	17,526	3,071	—	0	0
Ethane	0	5,199	820	—	0	0
Propane	0	6,389	1,038	—	0	0
Normal Butane	0	2,645	447	—	0	0
Isobutane	0	1,031	249	—	0	0
Natural Gasoline	0	2,262	517	—	0	0
Motor Gasoline Blending Components	0	178	0	1,428	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	178	0	1,428	0	0
CBOB	0	178	0	1,428	0	0
GTAB	—	—	—	—	—	—
Other	0	—	0	—	0	—
Biofuels (including Fuel Ethanol)	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Biodiesel	—	—	—	—	—	—
Renewable Diesel Fuel	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	435	0	100	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	435	0	100	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	435	0	100	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	25	0	0
Kerosene	0	—	0	—	0	—
Distillate Fuel Oil	0	390	0	274	0	0
15 ppm sulfur and under	0	390	0	274	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	—	0	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	42,601	3,271	1,827	0	0

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	310	0	—	223	79	—
Petroleum Products	63	31	0	1,457	3,471	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	63	0	—	0	1,079	—
Motor Gasoline Blending Components	0	0	—	764	129	—
Reformulated - RBOB	—	—	—	—	—	—
Conventional	0	0	—	764	129	—
CBOB	0	0	—	764	82	—
GTAB	—	—	—	—	—	—
Other	0	0	—	0	47	—
Biofuels (including Fuel Ethanol)	0	0	0	195	589	0
Fuel Ethanol	0	0	—	195	569	—
Biodiesel	0	0	—	—	20	—
Renewable Diesel Fuel	—	0	0	—	0	0
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	51	117	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	51	117	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	51	117	—
Finished Aviation Gasoline	—	0	—	0	0	—
Kerosene-Type Jet Fuel	—	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	447	52	—
15 ppm sulfur and under	0	0	—	447	52	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	0	—	0	0	—
Residual Fuel Oil	0	0	—	—	1,185	—
Less than 0.31 percent sulfur	0	0	—	—	130	—
0.31 to 1.00 percent sulfur	0	0	—	—	167	—
Greater than 1.00 percent sulfur	0	0	—	—	888	—
Petrochemical Feedstocks	0	31	—	0	134	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	92	—
Other Oils for Petrochemical Feedstock Use	0	31	—	0	42	—
Special Naphthas	—	—	—	—	—	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	0	186	—
Miscellaneous Products	0	0	—	—	0	—
Total	373	31	0	1,680	3,550	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2022
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	2,235	—	2,235	—	0	—	0	0	0
Petroleum Products	21,122	—	308	20,814	504	432	0	0	0
Natural Gas Liquids	45	—	—	45	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	45	—	—	45	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	15	—	15	—	20	—	0	0	0
Motor Gasoline Blending Components	10,664	—	—	10,664	0	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	10,664	—	—	10,664	0	—	0	0	0
CBOB	10,642	—	—	10,642	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	22	—	—	22	0	—	0	0	0
Biofuels (including Fuel Ethanol)	0	—	—	—	0	432	0	0	0
Fuel Ethanol	0	—	—	—	0	—	0	0	0
Biodiesel	—	—	—	—	0	—	—	0	0
Renewable Diesel Fuel	—	—	—	—	—	432	—	—	0
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	980	—	—	980	0	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	980	—	—	980	0	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	980	—	—	980	0	—	0	0	0
Finished Aviation Gasoline	50	—	—	50	—	—	0	—	0
Kerosene-Type Jet Fuel	4,418	—	—	4,418	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	4,265	—	—	4,265	219	—	0	0	0
15 ppm sulfur and under	4,016	—	—	4,016	219	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	249	—	—	249	—	—	0	—	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	0	—	—	—	35	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	35	—	—	0	0
Other Oils for Petrochemical Feedstock Use	0	—	—	—	0	—	0	0	0
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	512	—	293	219	134	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	173	—	—	173	81	—	0	0	0
Miscellaneous Products	—	—	—	—	15	—	—	0	0
Total	23,357	—	2,543	20,814	504	432	0	0	0

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	1,247	0	0	2,234
Propane	43	46	0	0	1,140	298	0	393
Propylene	0	0	–	–	269	563	–	–
Normal Butane	246	0	0	0	313	56	0	673
Isobutane	173	20	0	0	107	38	0	41
Fuel Ethanol	0	0	0	0	8,786	3,977	433	2,956
Biodiesel	0	0	0	0	262	254	34	452
Marketable Petroleum Coke	0	18	0	0	482	767	16	3
Asphalt and Road Oil	40	0	0	0	636	255	5	124

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	1,268	0
Propane	235	53	0	0	0	0	0	281
Propylene	0	0	–	–	0	0	0	–
Normal Butane	79	365	0	157	0	0	0	432
Isobutane	0	240	0	37	0	0	0	63
Fuel Ethanol	0	0	0	494	0	0	0	121
Biodiesel	0	0	0	80	0	0	0	0
Marketable Petroleum Coke	50	16	0	13	0	168	40	64
Asphalt and Road Oil	100	35	0	73	0	86	106	202

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	3
Marketable Petroleum Coke	0	71	23	26
Asphalt and Road Oil	0	0	0	41

– = No Data Reported.
Data source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, December 2022
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	234	310	0	544
3	20	0	0	20
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	200	223	1,247	1,670
3	53,647	79	0	53,726
4	5,278	—	0	5,278
5	—	—	2,234	2,234
From 3 to				
1	111	2,235	0	2,346
2	22,298	0	0	22,298
4	0	—	0	0
5	—	—	0	0
From 4 to				
1	0	0	0	0
2	24,060	0	0	24,060
3	200	0	1,268	1,468
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Data source: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	4,016	564	3,452	46,902	62,909	-16,007	55,214	24,644	30,570
Petroleum Products	126,901	17,946	108,955	56,760	79,920	-23,161	45,027	130,888	-85,860
Natural Gas Liquids	10,128	7,580	2,548	38,619	46,582	-7,963	33,047	16,431	16,616
Ethane	505	5,376	-4,871	11,921	16,349	-4,428	14,663	1,346	13,317
Propane	7,845	1,099	6,746	9,159	17,240	-8,081	9,501	4,296	5,205
Normal Butane	1,671	373	1,298	4,038	7,030	-2,992	3,886	1,256	2,630
Isobutane	107	494	-387	2,499	1,970	529	1,620	1,031	589
Natural Gasoline	0	238	-238	11,002	3,993	7,009	3,377	8,502	-5,125
Refinery Olefins	269	0	269	0	832	-832	563	0	563
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	269	0	269	0	832	-832	563	0	563
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	15	63	-48	83	1,079	-996	1,079	35	1,044
Motor Gasoline Blending Components	57,547	7,153	50,394	10,094	4,825	5,269	1,597	62,406	-60,809
Reformulated - RBOB	6,696	0	6,696	519	285	234	285	9,246	-8,961
Conventional	50,851	7,153	43,698	9,575	4,540	5,035	1,312	53,160	-51,848
CBOB	50,013	7,153	42,860	9,575	4,493	5,082	1,265	52,322	-51,057
GTAB	0	0	-	-	-	-	-	-	-
Other	838	0	838	0	47	-47	47	838	-791
Biofuels (including Fuel Ethanol)	9,242	0	9,242	0	17,937	-17,937	4,820	1,006	3,814
Fuel Ethanol	8,981	0	8,981	0	16,915	-16,915	4,546	494	4,052
Biodiesel	262	0	262	0	1,022	-1,022	274	80	194
Renewable Diesel Fuel	-	-	-	0	0	-	0	432	-432
Other Biofuels ²	-	-	-	0	0	-	0	0	-
Finished Motor Gasoline	2,524	92	2,432	714	776	-62	117	2,149	-2,032
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	0	0	-	0	0	-	0	0	-
Conventional	2,524	92	2,432	714	776	-62	117	2,149	-2,032
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	2,524	92	2,432	714	776	-62	117	2,149	-2,032
Finished Aviation Gasoline	50	0	50	0	0	-	0	50	-50
Kerosene-Type Jet Fuel	15,495	405	15,090	2,077	637	1,440	0	17,306	-17,306
Kerosene	37	0	37	0	0	-	0	37	-37
Distillate Fuel Oil	29,640	2,564	27,076	4,492	3,459	1,033	1,060	30,231	-29,171
15 ppm sulfur and under	28,743	2,564	26,179	4,345	3,459	886	1,060	29,187	-28,127
Greater than 15 ppm to 500 ppm sulfur	1	0	1	147	0	147	0	148	-148
Greater than 500 ppm sulfur	896	0	896	0	0	-	0	896	-896
Residual Fuel Oil	0	0	-	0	1,185	-1,185	1,185	0	1,185
Petrochemical Feedstocks	0	31	-31	35	134	-99	165	35	130
Naphtha for Petrochemical Feedstock Use	0	0	-	35	92	-57	92	35	57
Other Oils for Petrochemical Feedstock Use	0	31	-31	0	42	-42	73	0	73
Special Naphthas	0	0	-	0	0	-	0	0	-
Lubricants	512	0	512	134	0	134	0	646	-646
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	533	18	515	255	1,269	-1,014	847	79	768
Asphalt and Road Oil	909	40	869	242	1,206	-964	547	462	85
Miscellaneous Products	0	0	-	15	0	15	0	15	-15
Total	130,917	18,510	112,407	103,662	142,829	-39,168	100,241	155,532	-55,291

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, December 2022
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	5,278	25,528	-20,250	2,234	0	2,234
Petroleum Products	11,912	25,003	-13,091	13,321	163	13,158
Natural Gas Liquids	8,095	21,373	-13,278	2,077	0	2,077
Ethane	2,001	6,019	-4,018	0	0	—
Propane	3,164	7,708	-4,544	674	0	674
Normal Butane	1,326	3,524	-2,198	1,262	0	1,262
Isobutane	471	1,343	-872	141	0	141
Natural Gasoline	1,133	2,779	-1,646	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Normal Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,753	1,606	147	4,999	0	4,999
Reformulated - RBOB	—	—	—	2,031	0	2,031
Conventional	1,753	1,606	147	2,968	0	2,968
CBOB	1,753	1,606	147	2,968	0	2,968
GTAB	—	—	—	0	0	—
Other	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	470	121	349	4,536	3	4,533
Fuel Ethanol	433	121	311	3,571	0	3,571
Biodiesel	37	0	37	532	3	529
Renewable Diesel Fuel	0	0	—	432	0	432
Other Biofuels ²	0	0	—	0	0	—
Finished Motor Gasoline	97	535	-438	100	0	100
Reformulated	0	0	—	0	0	—
Reformulated Blended with Fuel Ethanol	0	0	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	97	535	-438	100	0	100
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	97	535	-438	100	0	100
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	528	37	491	285	0	285
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	881	664	217	845	0	845
15 ppm sulfur and under	881	664	217	845	0	845
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	—	—	—
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	0	0	—	0	0	—
Lubricants	0	0	—	0	0	—
Waxes	0	0	—	0	0	—
Marketable Petroleum Coke	42	272	-230	80	119	-39
Asphalt and Road Oil	46	395	-348	399	41	358
Miscellaneous Products	0	0	—	0	0	—
Total	17,190	50,531	-33,341	15,555	163	15,392

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

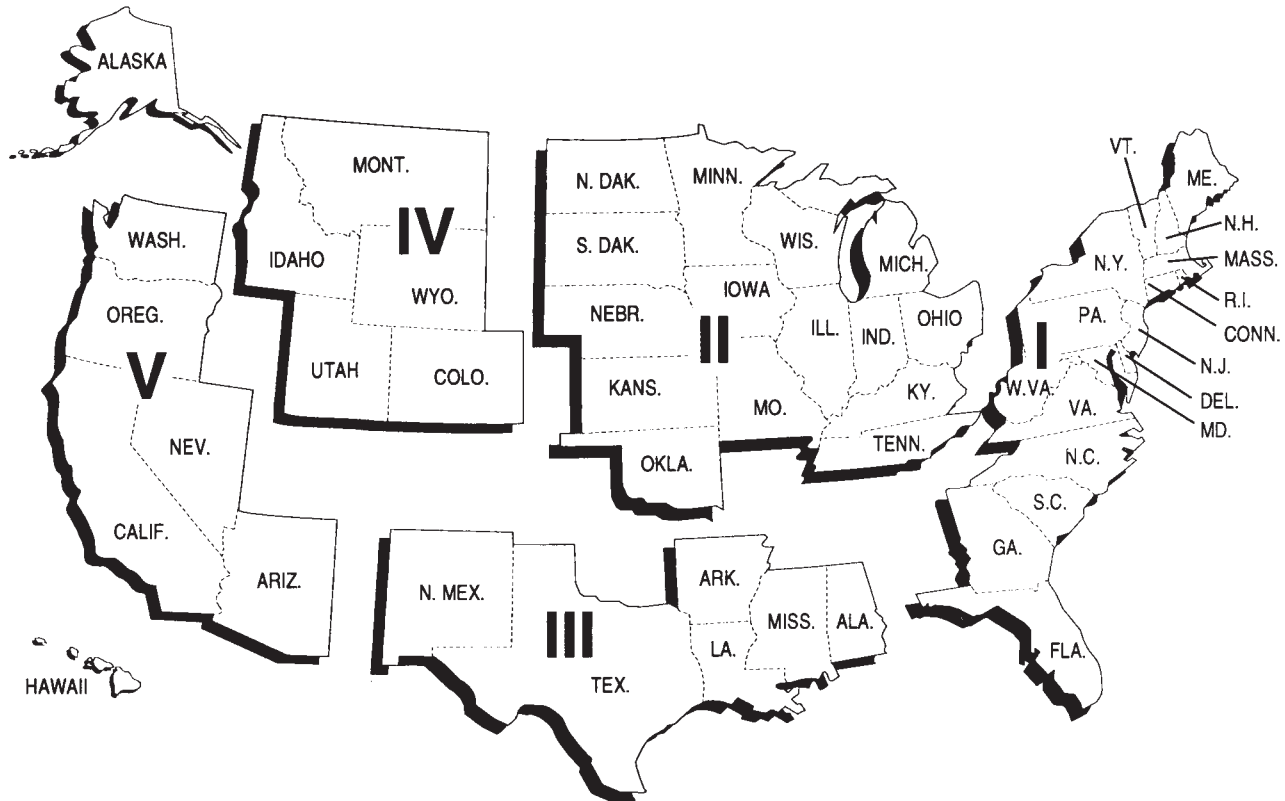
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

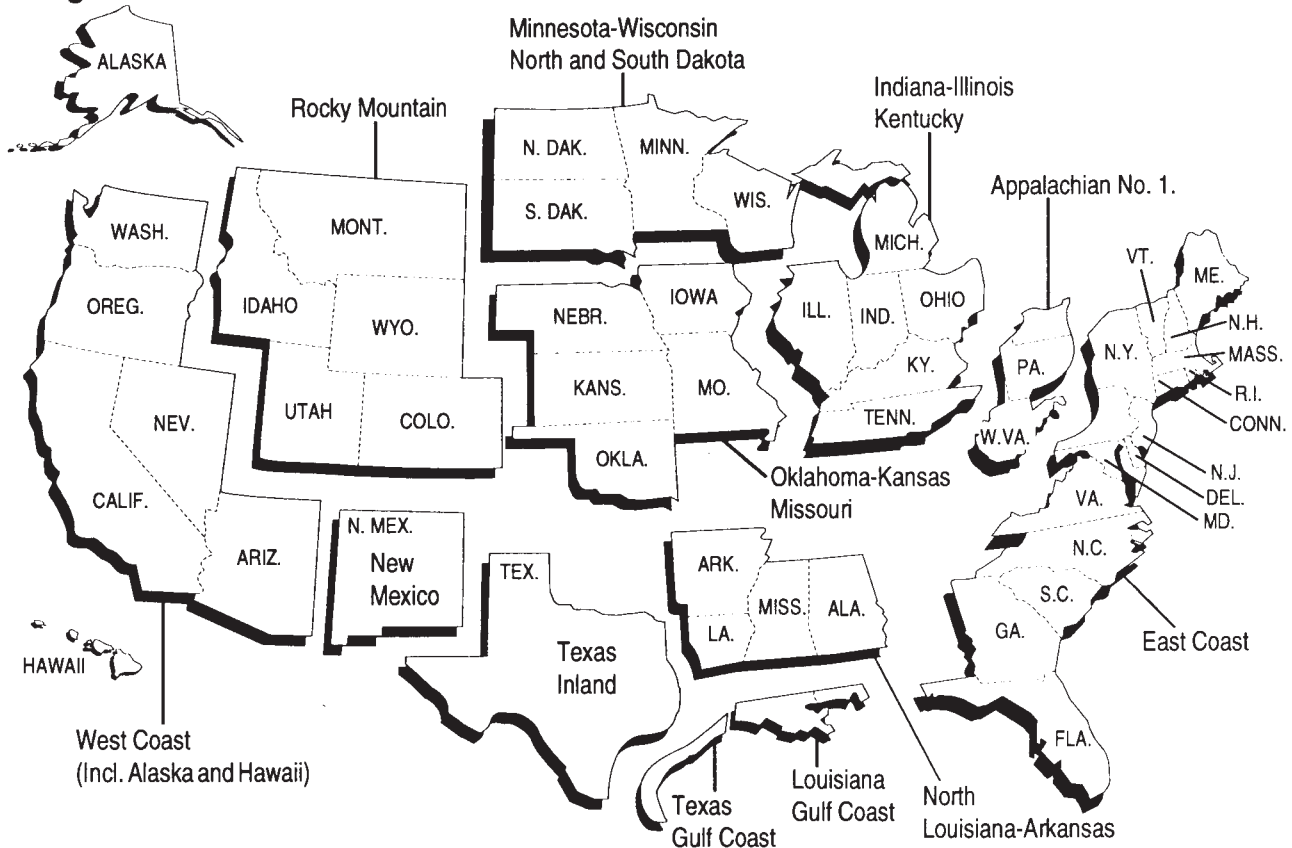
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B. Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels.

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM and PSA are used for calculation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum product barrels from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, biofuels and oxygenate production plants, imports, exports, and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, biofuels plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock. EIA includes tertiary stocks of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) held by storage operators with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker, or barge in primary stocks.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate national and PADD supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. EIA provides the following discussion to assist with interpretation of supply and disposition tables 1-25. The [EIA glossary](#) contains definitions of products and other terms used on tables.

(1.) Supply

a. **Field Production - Total Field Production** is the sum of crude oil production and natural gas liquids production (NGL) from natural gas processing plants.

Sources of crude oil production data include state government agencies, Department of the Interior, Bureau of Safety and Environmental Enforcement (and predecessor agencies), first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report", and Form EIA-914 "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to "Domestic Crude Oil Production" in Section 2C(1) for further details.

Field production of NGL is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. **Biofuels Plant Net Production**— biofuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and biofuels (diesel, heating oil, jet, naphtha, gasoline, and other biofuels and biointermediates) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-biofuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. **Refinery and Blender Net Production**— Refinery and Blender Net Production is reported on Forms EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

d. **Imports** - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories from foreign countries.

e. **Net Receipts** — Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 62.

f. **Adjustments** — This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, hydrogen, and "other" hydrocarbons. EIA calculates adjustment quantities to balance supply and disposition or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, biofuels plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021. Beginning with data for January 2021, EIA uses product supplied as the balance quantity for biofuels excluding fuel ethanol.

a. **Stock Change**— Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month's publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. **Refinery and Blender Net Inputs**— Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, hydrocarbon gas liquids, hydrogen, biofuels, and other hydrocarbons) processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. **Exports** - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. **Products Supplied** - Products supplied is a calculated measure of demand equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported (e.g. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" from January 1983 through December 2009. EIA discontinued reporting crude oil used directly on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of midnight on the last day of each month. Primary stocks include crude oil, hydrocarbon gas liquids, biofuels, and petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, biofuel production plants, and bulk terminals. Ending stocks also include stocks in transit by rail, truck, and water reported at destination facilities. EIA primary stocks include NGL (ethane, propane, normal butane, isobutane, and natural gasoline) held by end-user storage operators (i.e. tertiary storage) with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks (except stocks of NGL held by end users with storage capacity of at least 50,000 barrels and capability to ship NGL by pipeline, tanker, or barge) held by consumers. EIA excludes product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported in the PSM and PSA, but EIA provides stock quantities held in selected government reserves in Appendix D.

Primary stocks of crude oil included barrels held on crude oil producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbl_m_cur.htm

http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbl_m.htm

2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and hydrocarbon gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"
14. EIA-817, "Monthly Tanker and Barge Movement Report"
15. EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" (formerly "Monthly Oxygenate Report")
16. EIA-820, "Annual Refinery Report."

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report

on weekly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, “Annual Refinery Report.” The EIA-820 data are published in the annual “Refinery Capacity Report.”

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at:

<https://www.eia.gov/survey/>

Form EIA-22M “Monthly Biodiesel Production Survey” collected data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales until data for September 2020. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.

Form EIA-810, “Monthly Refinery Report,” collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on an annual basis.

Form EIA-812, “Monthly Product Pipeline Report,” collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included.

Form EIA-813, “Monthly Crude Oil Report,” collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil and unfinished oils only.

Form EIA-815, “Monthly Bulk Terminal Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on an annual basis.

Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and biofuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” included operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. EIA discontinued using Form EIA-22M in October 2020 and replaced it with data collected on Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene”.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Bulk Terminal Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and

has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included. February 2023

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene” include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other biofuels and biointermediates, isooctane, isooctene and fuel oxygenates other than fuel alcohol (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations) located in the 50 States and the District of Columbia.

(3.) Collection

Survey data for the MPSRS are collected by Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 98 percent calculated as total reports received divided by total reports expected.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in

(6.) Macro Editing

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases *PSM* data within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available in HTML format on [eia.gov](http://www.eia.gov). Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum data can be accessed at:

<http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the *PSM* are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the *PSM*, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report.” For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 “Domestic Crude Oil First Purchase Report.” For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, “Production of Crude Oil by PAD District and State.” Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a “Shipper’s Export Declaration Document” with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil and select products by railroad

The volume of crude oil, ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA’s Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum data html tables are updated with final data for a year.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Liquids (NGL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGL production is added to refinery receipts and inputs of NGPL. The adjusted NGL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS- NGL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of

GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each PADD. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PADD. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PADD. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PADD. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PADD, then the total adjustment quantity of finished conventional motor gasoline in that PADD would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PADD.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and biofuels plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for

reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Biofuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for biofuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). Product supplied for biofuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” biofuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.
- The product category called “biofuels (excluding fuel ethanol)” includes biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for biofuels (excluding fuel ethanol) at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Biofuels (excluding Fuel Ethanol) was unavailable and was excluded from Biofuels Plant Net Production. Therefore the calculation of adjustments to Biofuels (excluding Fuel Ethanol) caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. As a result, the adjustment for “biofuels (excluding fuel ethanol)” excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppms sulfur and under) through distillate fuel oil adjustments. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet

fuel, naphtha, gasoline, and other biofuels and biointermediates reported on Form EIA-819 under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. EIA now reports barrels formerly included in adjustment quantities as product supplied.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of biofuels plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol). Beginning with PSA data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the previously published Petroleum Supply Annual every month in petroleum data tables (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in petroleum data tables.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, “Monthly Imports Report,” have the same general

disclosure information statement. The information reported on Form EIA-814 will be considered “public information” and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. § 552, the Department of Energy (DOE) regulations, 10 C.F.R. § 1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. § 1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the Weekly Petroleum Status Report, Petroleum Supply Monthly, Petroleum Supply Annual and This Week In Petroleum.

Information on the Northeast Reserves is available from the U.S. Department of Energy Office of Petroleum Reserves web site at <http://energy.gov/fe/services/petroleum-reserves>.

The Northeast Home Heating Oil Reserve is a one million barrel supply of ultra low sulfur distillate (diesel/heating oil) for homes and businesses in the northeastern United States, a region heavily dependent upon the use of heating oil.

The Northeast Gasoline Supply Reserve is a one million barrel supply of seasonally adjusted, regionally appropriate supply of gasoline for consumers in the northeastern United States.

Northeast Home Heating Oil Reserve Distillate Fuel Oil, 15 ppm Sulfur and Under (Thousand Barrels)					Northeast Gasoline Supply Reserve Motor Gasoline Products (Thousand Barrels)		
	Connecticut	New Jersey	Maine	Massachusetts	New Jersey	Maine	Massachusetts
Jan-22	300	300		401	700	99	200
Feb-22	300	300		401	700	99	200
Mar-22	300	300		401	700	99	200
Apr-22	300	300		401	700	99	200
May-22	300	300		401	700	99	200
Jun-22	300	300		401	700	99	200
Jul-22	300	300		401	900	99	
Aug-22	300	300		401	900	99	
Sep-22	300	300		401	900	99	
Oct-22	300	300		401	900	99	
Nov-22	300	300	150	251	900	99	
Dec-22	300	300	200	201	900	99	

Source: U.S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

New York State Strategic Fuel Reserve

(Thousand Barrels)

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the Weekly Petroleum Status Report, Petroleum Supply Monthly, Petroleum Supply Annual and This Week In Petroleum.

	Motor Gasoline Blending Components	Fuel Ethanol	Distillate Fuel Oil, 15 ppm Sulfur and Under	NY Total
Jan-22	85	9	34	128
Feb-22	85	9	34	128
Mar-22	85	9	34	128
Apr-22	82	9	34	125
May-22	82	9	34	125
Jun-22	82	9	34	125
Jul-22	82	9	34	125
Aug-22	82	9	34	125
Sep-22	83	9	34	126
Oct-22	83	9	34	126
Nov-22	83	9	34	126
Dec-22	83	9	34	126

Source: New York State Energy Research & Development Authority